Apple TV/FM Radio System

User's Manual

Apple Computer, Inc.

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Communications regulation information

FCC statement

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. See instructions if interference to radio or television reception is suspected.

Radio and television interference

The equipment described in this manual generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with Apple's instructions—it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether your computer system is causing interference by turning it off. If the interference stops, it was probably caused by the computer or one of the peripheral devices.

If your computer system does cause interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the computer to one side or the other of the television or radio.
- Move the computer farther away from the television or radio.
- Plug the computer into an outlet that is on a different circuit from the television or radio. (That is, make certain the computer and the television or radio are on circuits controlled by different circuit breakers or fuses.)

If necessary, consult an Apple-authorized service provider or Apple. See the service and support information that came with your Apple product. Or, consult an experienced radio/television technician for additional suggestions.

Important Changes or modifications to this product not authorized by Apple Computer, Inc., could void the FCC Certification and negate your authority to operate the product.

This product was tested for FCC compliance under conditions that included the use of Apple peripheral devices and Apple shielded cables and connectors between system components. It is important that you use Apple peripheral devices and shielded cables and connectors between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices. You can obtain Apple peripheral devices and the proper shielded cables and connectors through an Apple-authorized dealer. For non-Apple peripheral devices, contact the manufacturer or dealer for assistance.

DOC statement

DOC Class B Compliance This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

Observation des normes—Classe B Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur : "Appareils Numériques", NMB-003 édictée par le ministre des Communications.

VCCI statement

情報処理装置等電波障害自主規制について

この装置は、第二種情報装置（住宅地域又はその隣接した地域において使用されるべき情報装置）で住宅地域での電波障害防止を目的とした情報処理装置等電波障害自主規制協議会（VCCI）基準に適合しております。

しかし、本装置をラジオ、テレビジョン受信機に近接してご使用になると、受信障害の原因となることがあります。

取扱説明書に従って正しい取り扱いをしてください。

PREFACE

This manual tells you how to install and use the hardware and software that are part of the Apple TV/FM Radio System so that you can

- watch TV or video and listen to the radio on your computer
- capture video or TV images on disk
- save radio recordings on disk
- determine which channels or radio stations you receive
- set up a password to restrict access to one or more TV channels
- take advantage of available closed captions, video text, and Second Audio Program (SAP) when you're watching TV on your computer
- manipulate basic TV and radio features with the included remote control
- quickly switch among watching TV, listening to the radio, and using your other computer application programs

Note: You use two separate applications to watch TV and listen to radio, but you can do both on your computer at the same time. However, you will not hear the TV while the radio is playing.

CHAPTER

1

Installing the Card and Software

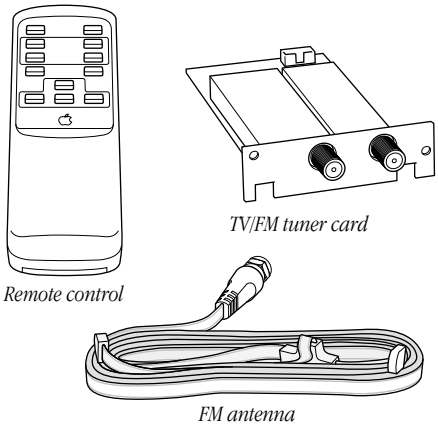
This chapter explains how to install the TV/FM tuner card and software you need to watch TV and listen to the radio on your computer. You'll find information on how to

- install the TV/FM tuner card
- attach an FM radio antenna and a TV antenna (or cable service connection) to the card
- attach a VCR (or other video device) to your computer's video input ports
- install the Apple FM Radio application program, which you use to listen to the radio, and the Apple Video Player application program, which you use to watch TV and video (an installer installs both of these applications at once for you)

If you purchased your computer with the video input card, TV/FM tuner card, and software already installed, skip the instructions in this chapter for installing the TV/FM tuner card. (Be sure to read the instructions and look at the illustrations for attaching a TV antenna and FM antenna.)

What you should have

Check your package to make sure you have everything you see here. Your package also contains floppy disks from which you will install the software later.



Remote control

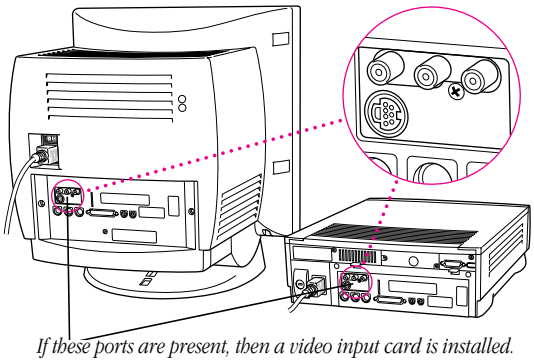
TV/FM tuner card

FM antenna

Note: Your remote control or FM antenna may look different from the one shown here.

To install the TV/FM tuner card, you first attach it to the computer, and then connect an FM antenna and a TV antenna (or a cable service connection) to it.

Important The TV portion of your TV/FM tuner card will not work if you do not have a video input card already installed. To see if your computer has a video input card installed, check the back of your computer for these three protruding ports.



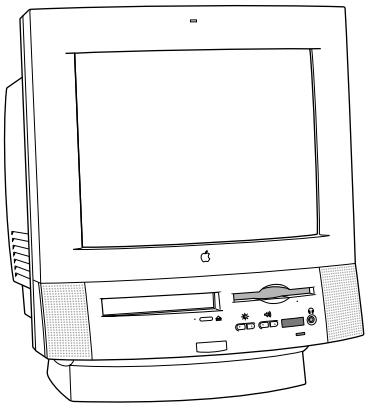
If these ports are present, then a video input card is installed.

You need a video input card even if you do not intend to connect any video equipment (such as a VCR or video camera) to it. If you do not have a video input card, purchase it separately from an Apple-authorized dealer and install it according to the instructions that come with it. If you have a video input card installed, go on to the next section.

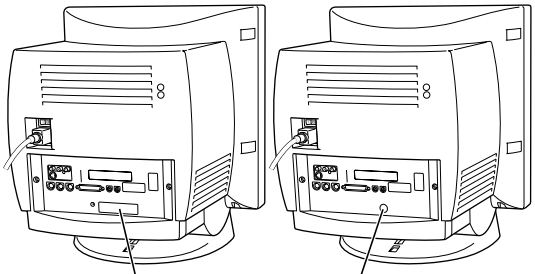
The steps for attaching the TV/FM tuner card to your computer vary slightly depending on whether or not your computer has a built-in monitor.

Installing the TV/FM tuner card in a compact computer

If your system has a built-in monitor, like this one, continue with the steps below. Otherwise, go to the section that follows, “Installing the TV/FM Tuner Card in a Modular Computer.”



Important Before you install the card, check the back of your computer and make sure the access cover for the TV/FM tuner card looks like the one on the computer on the left.



The back panel on your computer should have a rectangular access cover.

If the back panel on your computer has a small circular access cover, you'll need to purchase a replacement panel from an Apple-authorized dealer.

If the access cover on your computer matches the illustration on the left, continue with the instructions in this chapter. (The rectangular opening in the computer on the left accommodates both ports of the TV/FM tuner card.)

If the access cover on your computer looks like the computer on the right, you need to purchase a replacement for the back panel from an Apple-authorized dealer. After you've purchased the new back panel, continue with the instructions in this chapter.

To install the TV/FM tuner card in a computer with a built-in monitor, follow these steps:

Removing the logic board

1 Make sure you save any open documents and quit any open applications. Then turn off the computer like this:

- First, choose Shut Down from the Special menu.
- Then press the power switch at the back of the computer.

  Press the side of the switch marked with the ○ symbol.

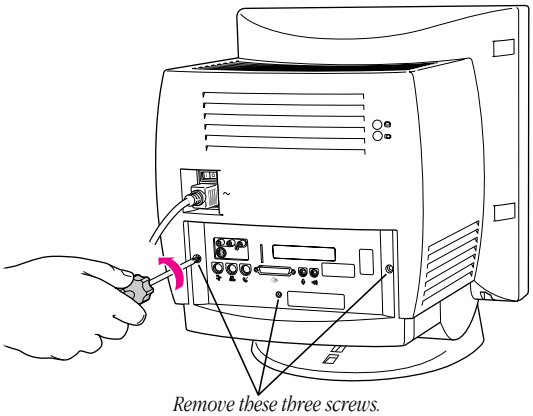
2 Unplug all the cables except the power cord from your computer.

  Leaving the power cord plugged in helps protect the computer from damage by electrostatic discharge.

  Important To avoid generating static electricity that may damage the card or computer, do not walk around the room until you have completed the installation of the card and closed the computer. Additionally, move the logic board as little as possible while it is outside the computer.

3 Use a screwdriver to remove the screws from the back panel.

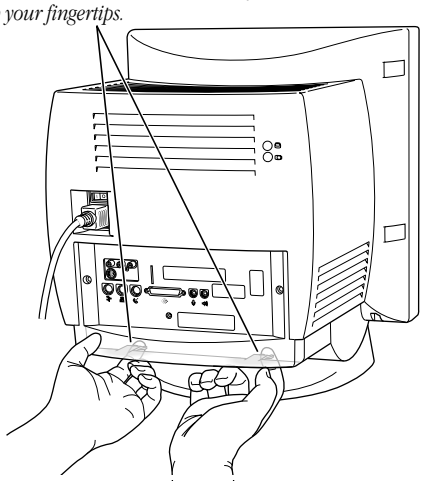
Note: If you had to buy a new back panel and are removing your old one, there are only two screws to remove, one on each side.



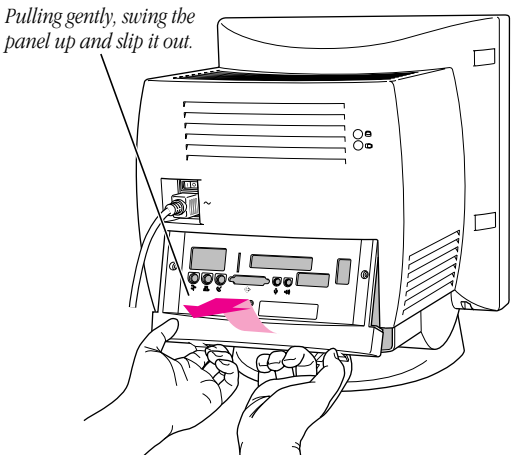
Remove these three screws.

4 With your fingertips, locate the two latches on the underside of the computer's case.

Locate the two latches on the underside of the computer's case with your fingertips.

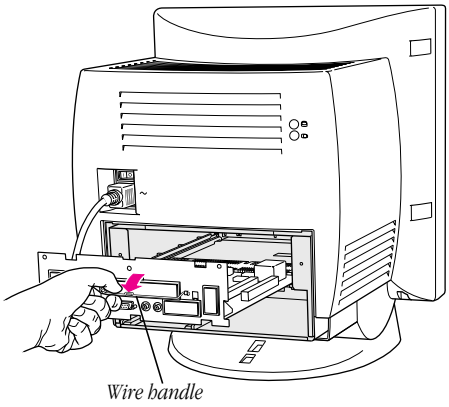


5 Pulling gently, swing the panel up and slip it out.



Remember: Don't walk around the room until you have finished installing the card and closed the computer. Move the logic board as little as possible while it's outside the computer.

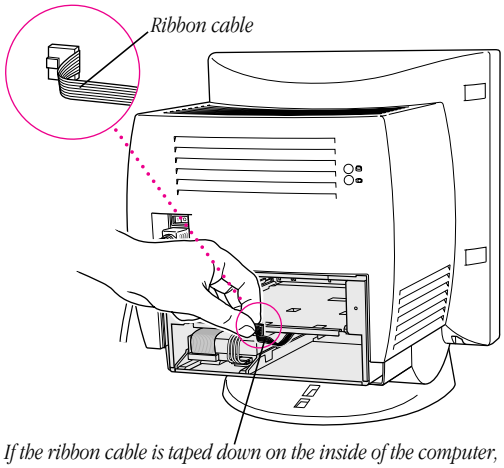
6 There is a wire handle on the back of the logic board. Swing it down and use it to pull the logic board toward you.



The logic board is plugged into a slot inside the computer, so you may have to brace the computer with your other hand and pull firmly at first. Slide the entire logic board all the way out of the computer.

Installing the TV/FM tuner card

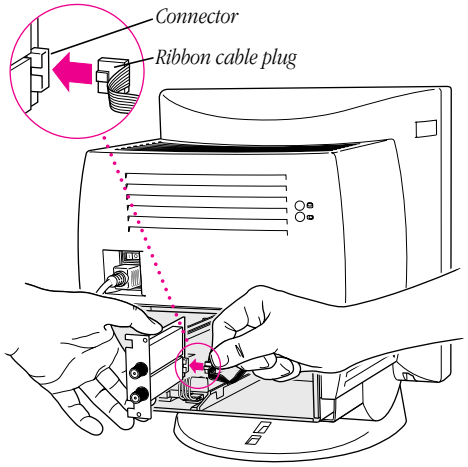
1 There is a ribbon cable inside the computer, held in place under the logic board tray, at the bottom of the chassis. Pull the cable gently a short way out of the opening.



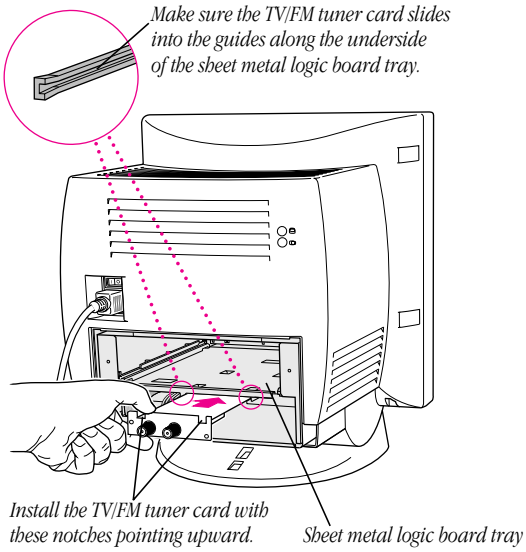
If the ribbon cable is taped down on the inside of the computer, remove the tape and gently pull the ribbon cable a short way out of the opening so that you can attach it to the card.

2 Remove the TV/FM tuner card from its static-proof bag. Hold the card by its edges to avoid touching the connectors.

3 Attach the plug on the ribbon cable to the connector on the TV/FM tuner card.

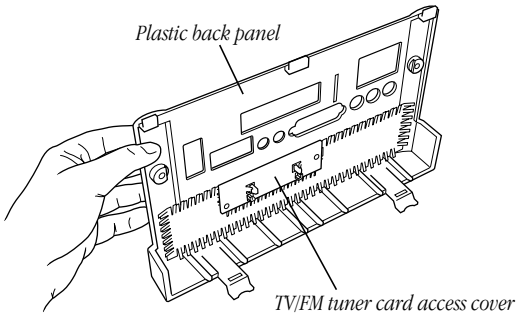


4 Slide the TV/FM tuner card into place under the logic board tray. Fit the edges of the card into both of the guides there, making sure the notches on the card point upward.

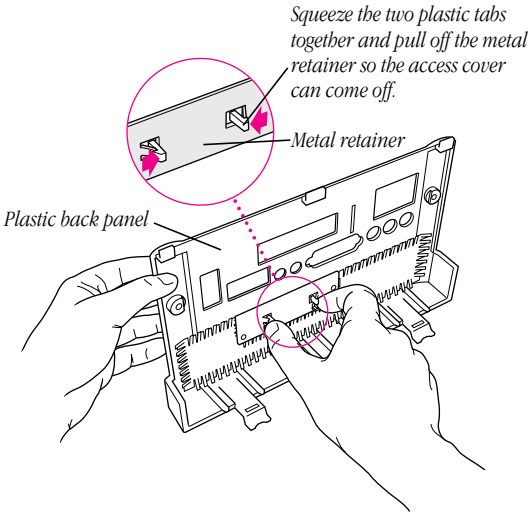


5 Locate the TV/FM tuner card access cover on the inside of the plastic back panel.

Note: If you purchased a new back panel, locate the access cover on the back of that panel.



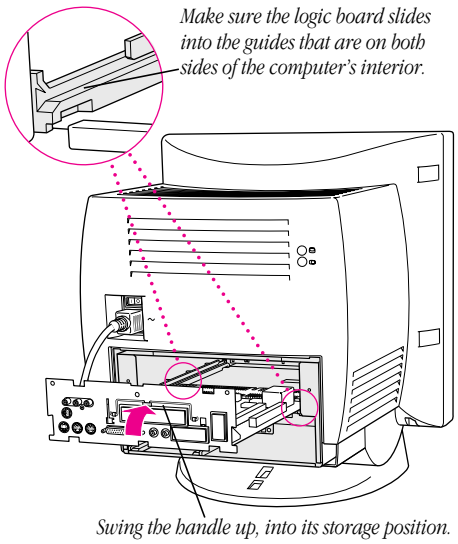
6 Remove the cover from its opening by squeezing together the plastic tabs that hold it in place.



Store the access cover; you may want to put it back in place it if you ever remove the TV/FM tuner card.

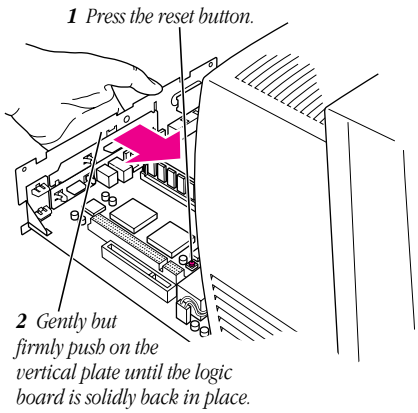
Replacing the logic board

1 Swing the wire handle on the logic board back up into its storage position, securing it under its catch. Then fit the logic board into the guide rails on both sides of the computer's interior.



2 Press the reset button on the logic board. Then gently but firmly push on the vertical plate until the logic board is back into place within the computer. You'll need to push a little harder at the end to make sure the connectors at the back of the board are seated in their slot.

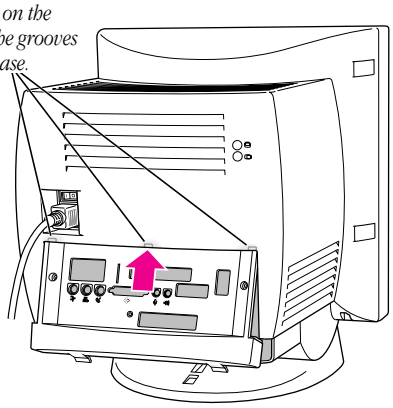
Note: If you can't find the reset button, it may be in a different location on your logic board. Check the manual that came with your computer, in the section in the appendix about installing expansion cards. There you will find an illustration that shows where the reset button is for your computer.



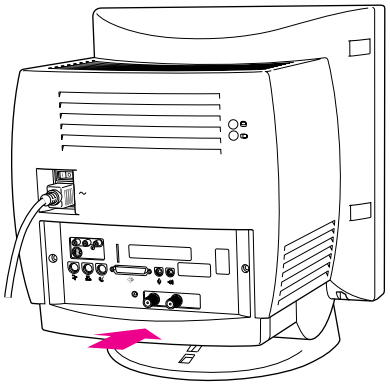
3 Slip the three tabs at the top of the back panel into the matching grooves in the computer case.

Note: If you purchased a different back panel from the one that was originally on your computer, attach the new back panel. You no longer need the old one.

Slip the three tabs on the back panel into the grooves in the computer case.

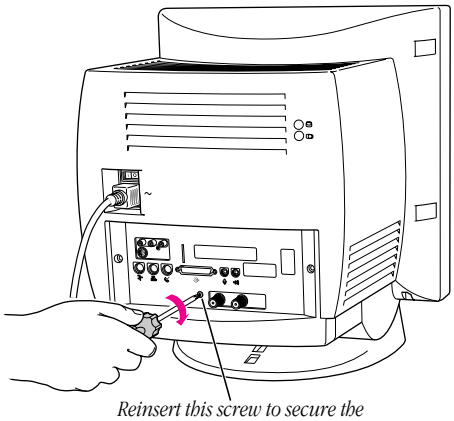


4 Then snap the bottom of the panel into place, making sure it is flush with the back of the computer.



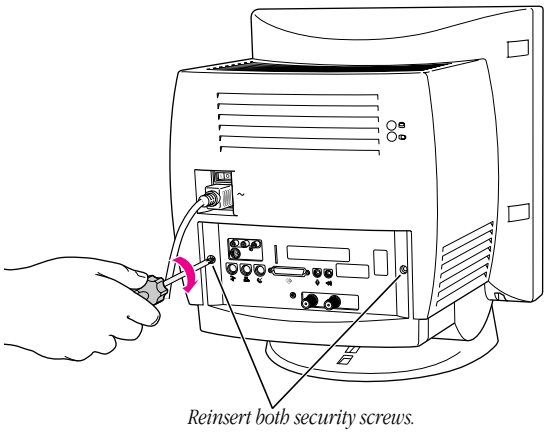
Snap the plastic back panel into place.

5 With a screwdriver, insert and gently tighten one of the provided attachment screws in the hole just to the left of the TV/FM tuner card.



Reinsert this screw to secure the TV/FM tuner card in the computer.

6 Reinsert the security screws on both sides of the back panel.



Reinsert both security screws.

Making connections to the TV/FM tuner card

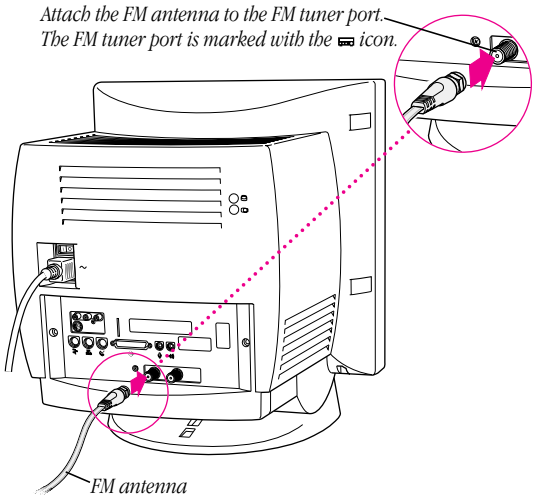
After installing the TV/FM tuner card by attaching the card to the computer, you then attach an FM antenna and a TV antenna (or cable service connection) to the card.

To attach FM and TV connections to the card, follow these steps.

1 Turn off the computer if it isn't already off.

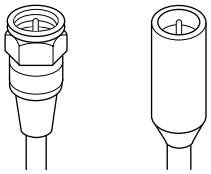
- Choose Shut Down from the Special menu.
- Then press the power switch (marked with the ○ symbol) at the back of your computer.

2 Attach the provided FM antenna to the FM port—the port on the left, marked by the icon. Depending on the type of antenna that came in your package, you may have to either push or screw the connector onto the FM port.



3 Before you attach the TV cable, make sure it has an F-type coaxial cable connector.

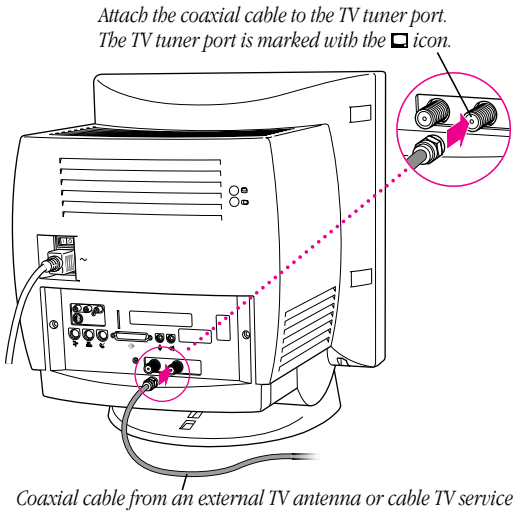
Important Do not attach or detach the coaxial cable while the computer is turned on.



F-type coaxial cable connectors

Note: If you want to view closed captions on a videotape that has them, you must connect your VCR to the TV/FM tuner card, not the video input card. For instructions on how to do this, see the Appendix, "Viewing Closed Captions on Videotape."

4 Using an F-type coaxial cable connector, connect the TV port on the right, marked by the icon, to a cable service or to a TV antenna.

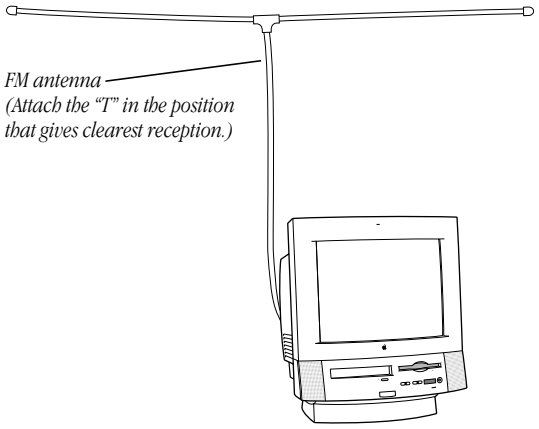


5 Reconnect any cables you disconnected at the start of this process.

Because you pressed the reset button on the logic board earlier, some of your computer's software settings will have changed (for example, the date and time on your computer will need to be reset). You may want to open the control panels for the date and time, keyboard, and mouse to make sure that they are set the way you want them. For more information about resetting these options, refer to Macintosh Guide, available in the Guide (?) menu. (If you do not have Macintosh Guide on your computer, see the manual that came with your computer.)

6 Unfold the FM antenna and position it high for the best reception.

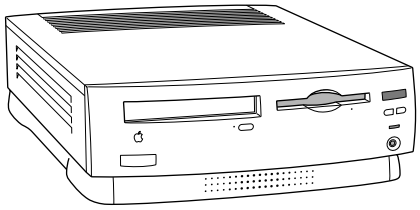
Attach the antenna to a wall in the position that gives the clearest reception. Use tape, thumbtacks (through the middle of the plastic strips), or pushpins (through the white plastic ends).



7 Skip the next section, "Installing the TV/FM Tuner Card in a Modular Computer," and go on to the section that follows, "Connecting Other Video Equipment."

Installing the TV/FM tuner card in a modular computer

If your system has a separate monitor, like this one, continue with the steps below. If the monitor is built into your system, go back to the section that precedes this one, "Installing the TV/FM Tuner Card in a Compact Computer."



To install the TV/FM tuner card in a modular computer, follow these steps:

1. Make sure you save any open documents and quit any open applications. Then turn off the computer.

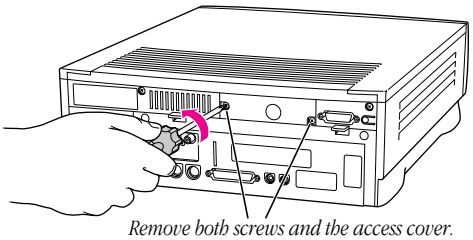
   Choose Shut Down from the Special menu.

2. Unplug all the cables except the power cord from your computer.

   Leaving the power cord plugged in helps protect the computer from electrostatic discharge damage.

   Important To avoid generating static electricity that may damage the card or computer, do not walk around the room until you have completed the installation of the card and closed the computer. Additionally, move the logic board as little as possible while it is outside the computer.

3 Use a screwdriver to unscrew the access cover for the TV/FM tuner card port.



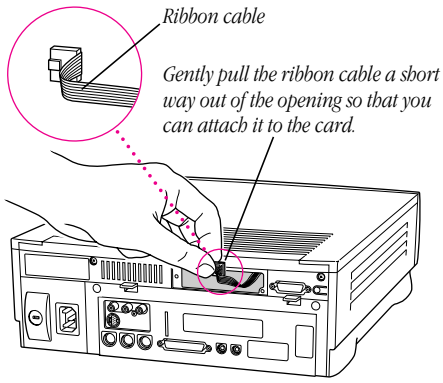
Remove both screws and the access cover.

4 Remove the access cover by pulling it toward you.

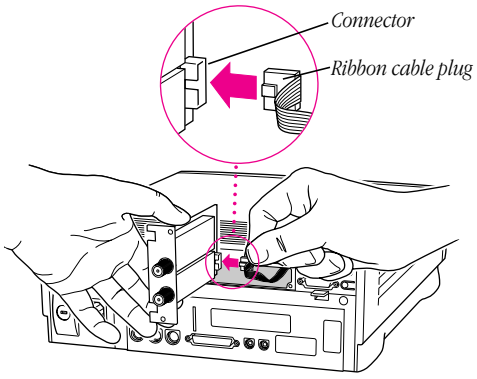
You won't have to replace the access cover after you've installed the TV/FM tuner card, but you will need the screws. Store the access cover; you may want to put it back on if you ever remove the TV/FM tuner card.

5 Remove the TV/FM tuner card from its static-proof bag.

6 Reach into the access hole you just uncovered and gently pull out the ribbon cable.

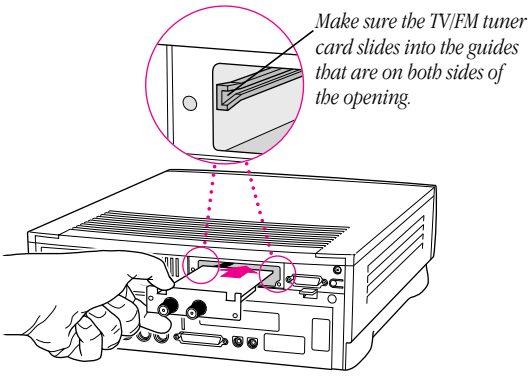


7 Insert the ribbon cable plug into the connector on the back of the card.



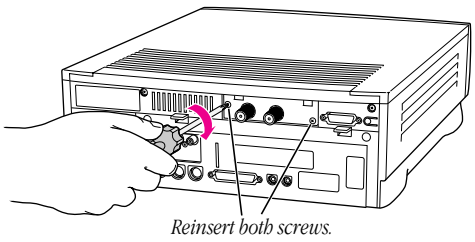
8 Gently slide the card into the access hole, with the ribbon cable on the side of the card that's facing down.

Be sure that all the ribbon cable goes into the access hole.



9 Screw the TV/FM tuner card to the computer.

To do this, use the screws you removed in step 3.



Making connections to the TV/FM tuner card

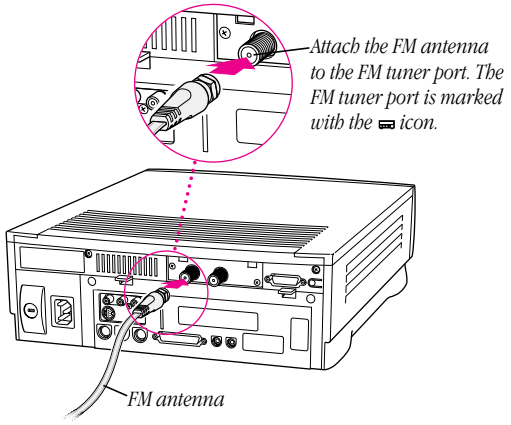
After installing the TV/FM tuner card by attaching the card to the computer, you then attach an FM antenna and a TV antenna (or cable service connection) to the card.

To attach FM and TV connections to the card, follow these steps.

1. Turn off the computer if it isn't already off.

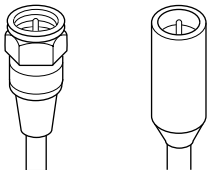
   Choose Shut Down from the Special menu.

2. Attach the provided FM antenna to the FM port—the port on the left, marked by the icon. Depending on the type of antenna that came in your package, you may have to either push or screw the connector onto the FM port.



3 Before you attach the TV cable, make sure it has an F-type coaxial cable connector.

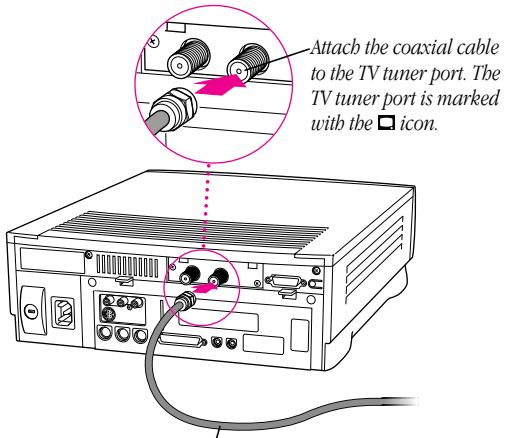
Important Do not attach or detach the coaxial cable while the computer is turned on.



F-type coaxial cable connectors

Note: If you want to view closed captions on a videotape that has them, you must connect the VCR to the TV/FM tuner card, not the video input card. For instructions on how to do this, see the Appendix, "Viewing Closed Captions on Videotape."

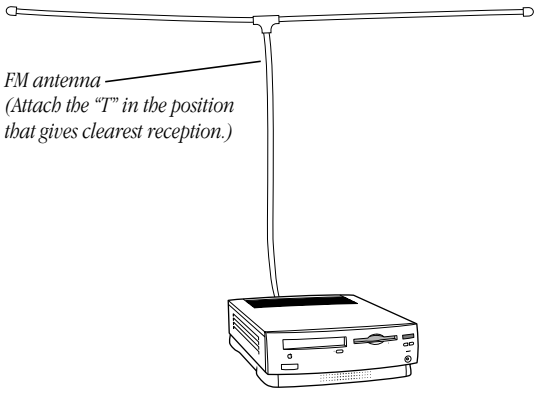
4 Using an F-type coaxial cable connector, connect the TV port on the right, marked by the icon, to a cable service or to an antenna.



5 Reconnect the power cord and any cables you disconnected at the start of this process.

6 Unfold the FM antenna and position it high for the best reception.

Attach the antenna to a wall in the position that gives the clearest reception. Use tape, thumbtacks (through the middle of the plastic strips), or pushpins (through the white plastic ends).



Connecting other video equipment

If you want to see video on your computer from a VCR, laser disc player, video camera, or other video equipment, you need to connect the equipment to the ports on the video input card in your computer.

You can connect one piece of equipment to the S-video port or one piece to the composite video port on the video input card.

Note: You can also connect two pieces of video equipment to the video input card simultaneously—one to the S-video input port on the card and another to the composite video input port on the card. For example, you can view a recording from a video camera connected to the S-video port, then switch—using the Apple Video Player application, without having to disconnect cables—to viewing video from a VCR connected to the composite port on the card. However, you will hear sound only from that piece of equipment that is connected to the audio input ports on the card.

Preparing to connect video equipment

Before you start, make sure that

- both the Macintosh and the video equipment are turned off
- you place the video equipment near enough to your Macintosh for easy connection
- you determine which type of video connector you need for your video equipment (see the next section)

Determining which video connector you need

Check the video out port or ports on your video equipment. A video out port should look like one of the ports pictured below. (You may have both ports.)

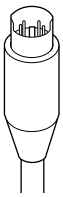
S-video port

Composite video port (RCA-type)

To connect to a composite video out port, use a composite (RCA plug) connector. See "Connecting Video Equipment If You Use a Composite (RCA Plug) Video Connector."

Composite connector (RCA plug)

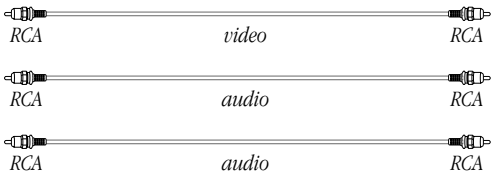
To connect to an S-video video out port, use an S-video connector. See "Connecting Video Equipment If You Use an S-video Connector."



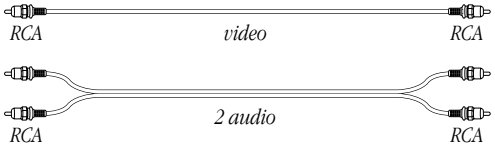
S-video connector

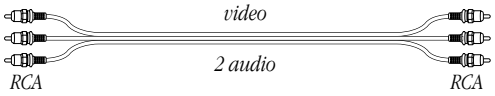
Connecting video equipment if you use a composite (RCA plug) video connector

To connect your video equipment you need one video cable and two audio cables, all with RCA plugs at both ends. The cables can be separate or joined. You can purchase cables at electronics supply stores.



or



or

Note: If you have only one audio out port on your video equipment, you can use a Y-adapter audio cable. This cable has a single plug on one end to plug into your equipment and a double plug (where it forms a Y) on the other end to plug into the two audio ports on the video input card.

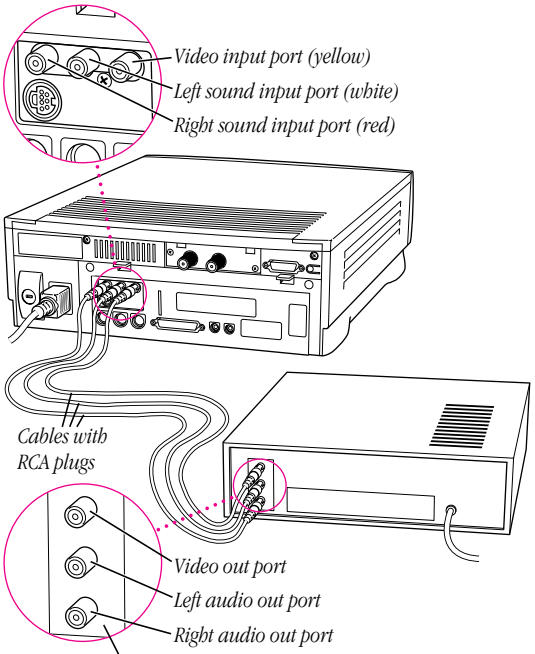
1. Make sure that both the Macintosh and the video equipment are turned off.
2. Attach one end of the video cable to the video out port on the video equipment.
3. Plug the other end of the video cable into the yellow composite video input port on the video input card.
4. Insert the RCA plugs on one end of the audio cables into the left and right audio out ports on the video equipment.

   If you're using a Y-adapter audio cable: Plug the single end of the cable into the audio out port on your video equipment.
5. Insert the RCA plugs on the other end of the audio cables into the left (white) and right (red) sound input ports on the video input card.

   Be sure to plug the cable from the left audio out port on the video equipment to the left sound input port on the computer. Connect the right ports in the same way.

   If you're using a Y-adapter audio cable: Plug the double end of the cable (where it forms a Y) into the right and left sound input ports on the video input card.

The video input card ports are exactly the same on a computer with a built-in monitor, and the card itself is in about the same position on the back of the unit as in the illustration below of a computer without a built-in monitor.

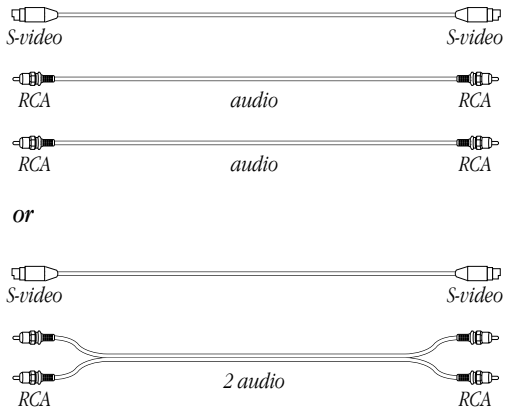


The ports on your video equipment may be arranged and labeled differently from those shown here.

Your video equipment is now connected to the video input card.

Connecting video equipment if you use an S-video connector

To connect your video equipment you need one video cable with S-video connectors on both ends and two audio cables with RCA plugs at both ends. The RCA cables can be separate or joined. You can purchase cables at electronics supply stores.



Note: If you have only one audio out port on your video equipment, you can use a Y-adapter audio cable. This cable has a single plug on one end to plug into your equipment and a double plug (where it forms a Y) on the other end to plug into the two audio ports on the video input card.

1. Make sure that both the Macintosh and the video equipment are turned off.
2. Attach one end of the video cable to the video out port on the video equipment.
3. Plug the other end of the video cable into the S-video input port on the video input card.

   About the S-video port: The S-video port accepts 4-pin and 7-pin connectors.

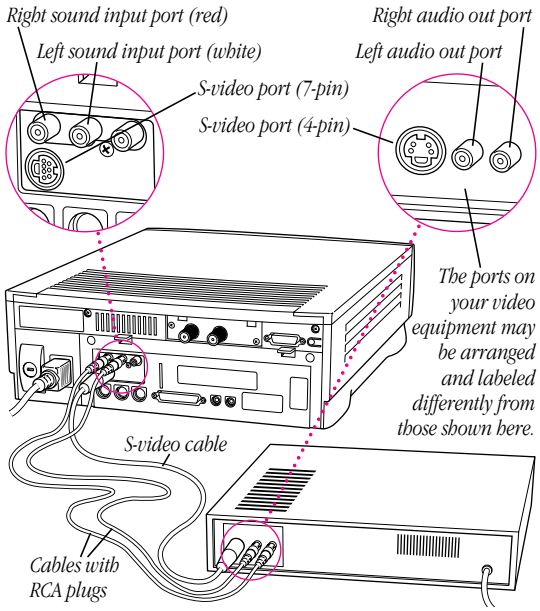
   If the connector doesn't slide easily into the port, realign it and try again. Avoid using force, which could damage the card or the connector.
4. Insert the RCA plugs on one end of the audio cables into the left and right audio out ports on the video equipment.

   If you're using a Y-adapter audio cable: Plug the single end of the cable into the audio out port on your video equipment.
5. Insert the RCA plugs on the other end of the audio cables into the left (white) and right (red) sound input ports on the video input card.

   Be sure to plug the cable from the left audio out port on the video equipment to the left sound input port on the computer. Connect the right ports in the same way.

   If you're using a Y-adapter cable: Plug the double end of it (where it forms a Y) into the right and left sound input ports on the video input card.

The video input card ports are exactly the same on a computer with a built-in monitor, and the card itself is in about the same position on the back of the unit as in the illustration below of a computer without a built-in monitor.



Your video equipment is now connected to the video input card.

Installing the software

To play TV and FM radio you use two separate applications. The Apple Video Player application lets you watch TV and video on your computer; the Apple FM Radio application lets you listen to FM radio on your computer.

Note: If you already have a version of Apple Video Player on your computer, the installer disks in this package automatically replace that version with the latest version of Apple Video Player at the same time that they install the Apple FM Radio application.

To install the Apple FM Radio and Apple Video Player application programs, follow these steps.

1. Start the computer.
2. Insert the floppy disk, *TV/FM Software Install Disk 1,* into the floppy disk drive.
3. Double-click the disk icon to open it.
4. Double-click the Installer icon.

5 Click Install.

6 Follow the instructions on the screen.

The instructions on the screen tell you when you need to insert the next software installer disk.

7 When the installation is complete, click Restart.

You can now find two separate folders in your Apple Extras folder on your hard disk—one for the Apple FM Radio application and one for the Apple Video Player application, with the icons for the applications inside the appropriate folders.

These are the icons for the applications:

Where to go from here

The TV/FM tuner card is preset to display TV shows from broadcast TV and to receive FM radio broadcasts.

If you want to listen to the radio

- To begin listening to the radio immediately, turn to Chapter 2, “Listening to the FM Radio.”
- To preset your favorite stations or to set the radio to receive only the strongest station signals, see Chapter 3, “Customizing the FM Radio Settings.”
- To learn how to save radio recordings on your computer, see Chapter 4, “Recording from the Radio.”

If you want to watch TV or video

- To begin watching TV or video immediately, turn to Chapter 5, “Watching TV or Video.”
- To switch the source of the TV signal from antenna to cable service, see “Choosing a Connection (Antenna or Cable Service)” in the section “Programming Channels” in Chapter 6.
- To customize TV tuner features in the way that best fits your viewing habits, see Chapter 6, “Customizing the TV Tuner Settings.”
- To learn how to capture individual images or whole movie sequences, see Chapter 7, “Capturing TV and Video Images.”

CHAPTER

2

Listening to the FM Radio

This chapter contains most of the information you need to use the Apple FM Radio application program to listen to FM radio on your computer.

You may find listening to the radio more convenient if you first set up some of the options discussed in Chapter 3, "Customizing the FM Radio Settings."

See also: Chapter 9, "Using the Remote Control."

Turning on the FM Radio

To turn on the radio, open the Apple FM Radio application program by double-clicking its icon. (The application is in the Apple FM Radio folder, in the Apple Extras folder on your hard disk.)

When the Apple FM Radio application opens, a window appears and the radio comes on. (You may hear only static until you tune in a clear station.)

If you do not hear the radio right away, see the section "Problems Listening to the Radio," in Chapter 10.

Note: If you get a message telling you to select TV as the video source in Apple Video Player, do that. If you need help, see the section "Choosing a Video Source" in Chapter 5.

Turning off the FM radio

To turn off the FM radio, open the File menu and choose Quit.

Getting help on screen

If while using the Apple FM Radio application you become stuck or forget how to do a task, on-screen help may be available. Make sure that the FM Radio window is active, then go to the menu at the upper-right corner of the screen, marked with the ? icon, and choose Apple FM Radio Guide.

Note: Apple FM Radio Guide is not available if you have a computer with system software earlier than 7.5.

To see explanations of all the items on the screen when you use Apple FM Radio, make sure that the FM Radio window is active, then choose Show Balloons from the ? menu.

Tuning in to stations

You can tune in to stations with the Apple FM Radio application much as you would with any radio—by pressing one of the tuning arrows or one of the six Preset Station buttons on the left (after you have assigned stations to them). The frequency number of the station you are playing is displayed.

To learn how to assign preset stations, see "Presetting Stations" in Chapter 3.

Seeking stations

To tune in to only the clearest stations, click the Up or Down arrows under Seek. The radio stops at each of the clearest stations it receives.

Note: The FM tuner is preset to search all stations for the clearest signals. However, you can set the tuner so that it searches for clear stations within a certain signal range or strength. For example, you can preset the tuner to scan only local signals or to scan all but the weakest signals. See "Setting Signal Range and Strength" in Chapter 3.

To automatically assign the clearest stations to the Preset Station buttons, see "Presetting Stations Automatically" in the section "Presetting Stations," in Chapter 3.

Stepping through all stations

To tune in to all available stations (whether or not they come in clearly), click the Up or Down arrows under Step. To cycle through the stations more rapidly, place the pointer on one of the arrows and hold down the mouse button.

Adjusting the sound

You can adjust the FM radio's volume and set the radio to receive stereophonic (stereo) or monophonic (mono) sound. The sound adjustments you make take effect immediately, so you can monitor your changes.

Changing the sound's volume

There are four ways to change the volume.

- Use the volume buttons on the front of the computer.
- Drag the slider next to the speaker icon on the FM Radio window. (You can also click anywhere in the slider's track to move the slider to that position.)
- Press the Up Arrow key or Down Arrow key on the keyboard.
- Use the volume controls on the remote control. See Chapter 9, "Using the Remote Control."

Selecting stereo or mono sound

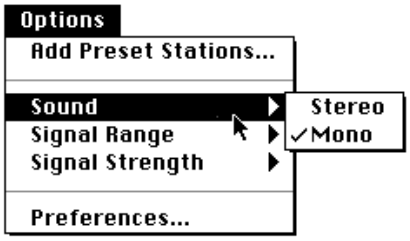
The Apple FM Radio is preset to play sound in stereophonic (stereo) sound if the station broadcasts in stereo. Some stations come in more clearly if you select monophonic (mono) sound. To select stereo or mono sound, follow these steps.

1. Open the Options menu and drag to the Sound choice.

   A pop-up menu appears beside the Sound choice.

2. Select Stereo to receive stereo sound or Mono to receive mono sound.

   The selected sound mode has a checkmark beside it.



CHAPTER

3

Customizing the FM Radio Settings

This chapter explains how to use the Apple FM Radio application program to give names to stations, to preset stations you want to listen to most frequently, and to set the signal range and strength of the stations you want to receive.

You'll need to turn on the FM Radio before following the instructions in this chapter. To turn on the FM Radio, open the Apple FM Radio application by double-clicking its icon. (The application is in the Apple FM Radio folder, in the Apple Extras folder on your hard disk.)

Apple FM Radio

Customizing is optional: The information and instructions provided in this chapter are meant to make using your Apple FM Radio more convenient. You don't have to customize the Apple FM Radio to listen to the radio on your computer. For the basic information you need about listening to the radio, read Chapter 2.

Presetting stations

This section describes how to preset stations so you can tune them in quickly.

Tuning in to preset stations

After you assign preset stations, there are three ways you can tune them in:

- Press a Preset Station button in the FM Radio window.
- Choose a preset station from the pop-up menu next to the frequency of the current station in the FM Radio window. The pop-up menu lists preset stations in numerical order for easier reference.

- Press one of the buttons in the Preset Stations window (chosen through the Options menu).

Assigning stations to the Preset Station buttons

To specify your favorite station as a preset station, follow these steps:

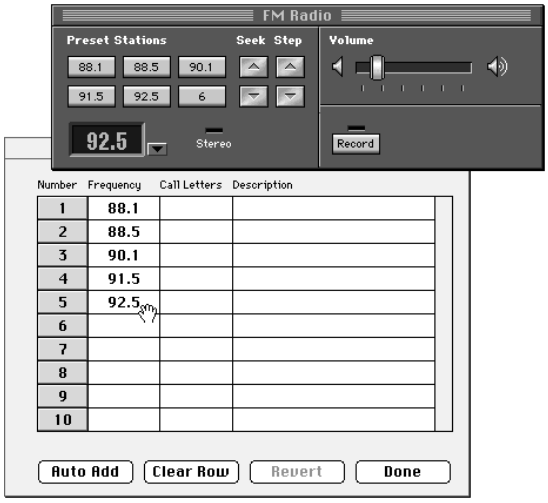
1. Tune in to the station you want to preset. (See "Tuning In to Stations" in Chapter 2.)

   The station is displayed in the lower-left corner of the FM Radio window.

2. Use one of the following methods to assign the station to a button:

   - Place the pointer on a Preset Station button, then hold down the mouse button until you hear a beeping sound. The current station's frequency appears on the button.
   - Place the pointer on the station's frequency, drag it from the box onto one of the six Preset Station buttons, then release the mouse button. (Note: This method works only if you have system software version 7.5 or later.)

- Open the Options menu and choose Add Preset Stations. When the Preset Stations window appears, move it away from the FM Radio window so that you can see both windows clearly. Place the pointer on the station's frequency and drag it from the box onto one of the rows in the Preset Stations window. When the row highlights, release the mouse button.



This method lets you preset more than six stations.

Note: The first six rows in the Preset Stations window represent the six buttons in the FM Radio window.

- In the Preset Stations window, type in the frequency of the station you want assigned to that row.

  Note: If you just type the station's call letters (usually four capital letters) and not the frequency, the station won't be assigned as a preset station. You must type in the frequency because the frequency is what the FM tuner uses to find the station.

  You can also type in the station's call letters and your own description, although they're not required. To display this information on the Preset Station buttons, see "Labeling Preset Station Buttons" later in this section.

3. Click on the pop-up menu (the arrow next to the current station's frequency in the FM Radio window) to see the list of all stations you have preset. You can use this menu to choose a preset station to listen to.

   If you want to make changes to the Preset Station buttons, see "Changing Preset Stations" later in this section.

Presetting stations automatically

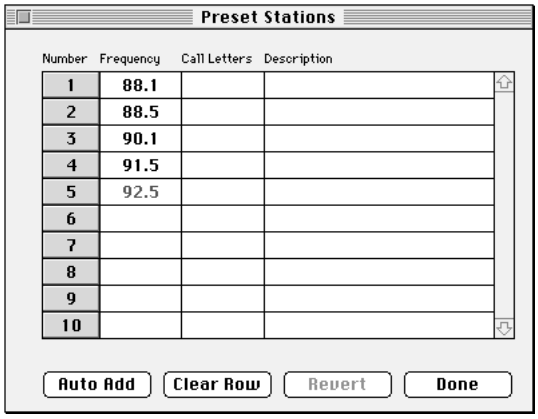
When you preset stations automatically, the Apple FM Radio application automatically assigns the clearest stations to the first available rows in the Preset Stations window, after stations that have already been assigned. (The added stations also appear in the pop-up menu list in the FM Radio window.)

Note: The Apple FM Radio application is set to search all stations for the clearest signals when automatically adding stations. You may want to search for stations within a certain signal range or strength. If you want to do this, see the section "Setting Signal Range and Strength" later in this chapter before you continue with these instructions.

To preset the clearest stations by adding them automatically, follow these steps.

1 Open the Options menu and choose Add Preset Stations.

The Preset Stations window appears.



If you've preset stations already, they appear in the rows.

2 Click Auto Add.

The FM tuner adds the clearest stations to the rows in the Preset Stations window and to the pop-up menu in the FM Radio window. If you've preset some stations already, Auto Add *adds* to the list in the Preset Stations window; it does not override stations you have already preset. The stations added appear in numerical order after the stations that were already preset.

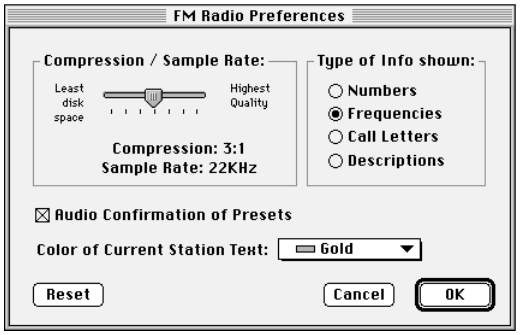
If you want to make changes to any of your preset stations, see "Changing Preset Stations" later in this section.

Labeling Preset Station buttons

The Apple FM Radio application automatically displays stations' frequencies on the six main Preset Station buttons when you assign stations to them. But you can also display stations' call letters or descriptions on the buttons (or display simply the numbers 1 through 6 on the buttons).

To display call letters, descriptions, or numbers on the Preset Station buttons, follow these steps:

1. Make sure that you have typed in call letters or descriptions for the stations in the Preset Stations window.
2. Open the Options menu and choose Preferences.



3. In "Type of Info shown," click in the circle next to one of the following:

- ***Numbers***—if you want the Preset Station buttons to be numbered in order, 1 through 6
- ***Frequencies***—if you want station frequencies (for example, 102.1) to appear on the Preset Station buttons

- ***Call Letters***—if you want the stations' call letters to appear on the Preset Station buttons (usually the call letters are four capital letters, such as WABC)
- ***Descriptions***—if you want your own description of the station to appear on the Preset Station buttons. (Only the first four to six characters of the description appear on the button.)

Changing preset stations

There are several ways to change the stations you've preset.

- To change a station in the preset stations list, click in the frequency column of the row you want to change, and type a new frequency label.

  Remember: You must type in the frequency because the frequency is what the FM tuner uses to find the station. You can also change the call letters and description.
- To add the current station to the list, drag its frequency onto any button in the FM Radio window or to a row in the Preset Stations window.
- To move a preset station to a different button or place in the list, drag an entire row on top of another row in the Preset Stations window.
- To clear a row (delete its contents), click anywhere in the row and then click Clear Row.
- To undo all changes you just made to the Preset Stations window (since you last opened it), click Revert.

Setting signal range and strength

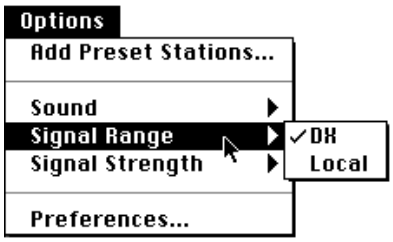
You can set your FM radio so that it searches within a certain signal range or strength for the clearest signals whenever you use the Seek or Auto Add features.

Choosing signal range

You can select the area—wide or local—from which Apple FM Radio receives stations. The Apple FM Radio is preset to receive whatever stations it can pick up, but you may sometimes want to choose a local range to reduce interference from strong neighboring stations (stations that are not local).

To choose the range of the signals in which the FM tuner searches, follow these steps:

1 Open the Options menu and choose Signal Range.



2 Choose DX to receive any station the radio can pick up. Choose Local to receive only local stations.

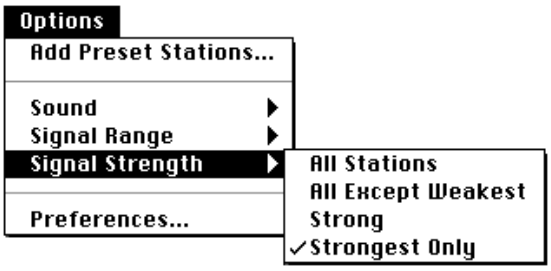
A checkmark appears beside the range that is selected.

Choosing signal strength

By choosing a signal strength, you can set the Apple FM Radio to seek or to automatically add stations that send signals of a certain strength. For example, if you set the signal strength to Strongest Only, the Apple FM Radio will seek or automatically add fewer stations than if you had set the signal strength to All Stations.

To choose the signal strength that the Apple FM Radio application looks for when it seeks or adds stations, follow these steps:

1 Open the Options menu and choose Signal Strength.



2 Choose the signal strength you want.

The signal strength you choose affects how many stations come up when you use the Seek or Auto Add features.

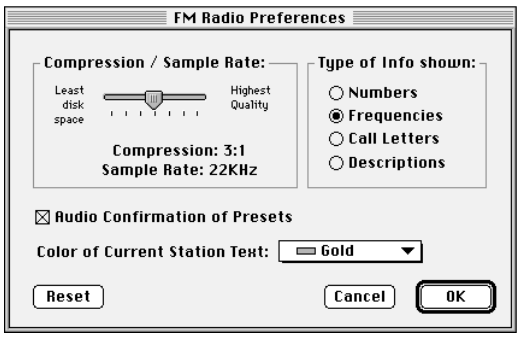
Setting other preferences

Besides selecting the type of station information you want to have appear on the Preset Station buttons, you can also choose the color in which the currently playing station's frequency is displayed, and whether or not you hear an alert sound as a confirmation when you preset a new station.

To learn how to change the compression/sample rate of any recordings you make, see the section "Compressing Recordings" in Chapter 4, "Recording from the Radio."

- To change the color of the text displaying the frequency of the current station, open the Options menu and choose Preferences. Click on the pop-up menu next to Color of Current Station Text and select the color you want.

  Note: Whatever station is currently playing is always displayed in red in the Preset Stations window. The color you choose only changes the frequency of the current station displayed at the lower left in the FM Radio window.



- To turn off the beep you hear when a new station is successfully preset, click in the Audio Confirmation of Presets box to remove the X.

  After you've finished selecting your preferences, click OK to implement the changes. (The window then closes.)

- To undo any changes you made since you last opened the Preferences window, click Reset.

CHAPTER

4

Recording from the Radio

This chapter gives instructions for using the Apple FM Radio application to record radio sound onto your computer's hard disk. It also gives instructions for compressing recordings so that they take up less disk space. You can play back recordings with the SimpleText application, which uses QuickTime technology to play back sound.

You'll need to turn on the radio before following the instructions in this chapter. To turn on the radio, open the Apple FM Radio application program by double-clicking its icon. (The application is in the Apple FM Radio folder, in the Apple Extras folder on your hard disk.)

Apple FM Radio

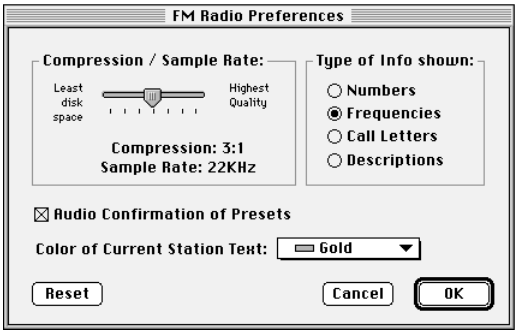
Compressing recordings

Before you record, you may want to choose a compression rate for your recording. Recordings that are not compressed have high-quality sound, but they take up a lot of disk space. If you compress a recording, it takes up less disk space but the recording sounds less clear than the original when you play it back.

To compress recordings, follow these steps before you record:

1 Open the Options menu and choose Preferences.

The FM Radio Preferences window appears.



2 In the Compression/Sample Rate box, choose the compression rate you want by dragging the slider towards "Least disk space" or "Highest Quality."

A compression rate of 1:1 means that no compression takes place. A compression rate of 3:1 uses a third of the disk space that 1:1 uses. A compression rate of 6:1 saves the most disk space.

Remember: Compression affects the sound quality of your recording: the more compression you use, the less clear your recording sounds.

You can also click anywhere in the track to move the slider.

Note: The compression ratios possible for your computer may be different from those possible for other computers. (As a result, you might not be able to move the slider to certain positions on the slider bar.)

3 Click OK.

The compression rate you just chose remains in effect for all recordings until you change the compression rate in the FM Radio Preferences window again.

Saving recordings

You can record from the radio any time by pressing the Record button in the FM Radio window.

To record from the radio and save it on a disk, follow these steps.

1 Choose a compression rate for your recording, if you want to and haven't done so already. See the previous section, "Compressing Recordings."

2 Click the Record button in the FM Radio window.

Immediately, the Record button turns into a Stop button and red light, and a “Recording time” counter appears that tells you the length of time that has passed since you clicked Record.

3 Click Stop when you want to stop recording.

Important If you don’t click the Stop button, recording continues until the hard disk is full.

The Save Audio Recording dialog box appears.

4 Specify a name for your recording and the location where you want to save it.

You can also play back a recording and adjust the recording's volume before you save it, using the Playback bar. Click the play (▶) button to play it back and the sound (🔊) button to adjust the volume.

5 Click Save.

When you open the recording later (by double-clicking its icon), it opens as a SimpleText document, which uses QuickTime technology to play back the sound at the volume level at which you saved it.

CHAPTER

5

Watching TV or Video

This chapter contains most of the information you need to use the Apple Video Player application program to watch TV or video on your computer. You also use Apple Video Player to watch video (from a VCR or video camera, for example) on your computer.

You may find watching TV more convenient if you first set up some of the options discussed in Chapter 6, "Customizing the TV Tuner Settings."

See also: "Setting the Closed Caption and Video Text Options" section in Chapter 8 and Chapter 9, "Using the Remote Control."

Opening Apple Video Player

To use the Apple Video Player application program, open it by double-clicking its icon. (The application is in the Apple Video Player folder, in the Apple Extras folder on your hard disk.) You can also press the TV/MAC button on the remote control.

When the Apple Video Player application opens, a video window appears. You can watch video or TV in the video window.

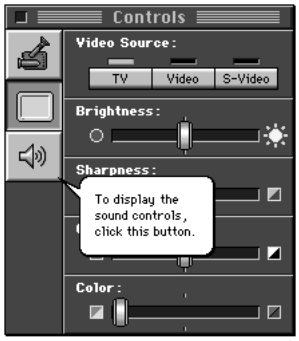
If you don't get an image in the window right away, see Chapter 10, "Troubleshooting."

Getting help on screen

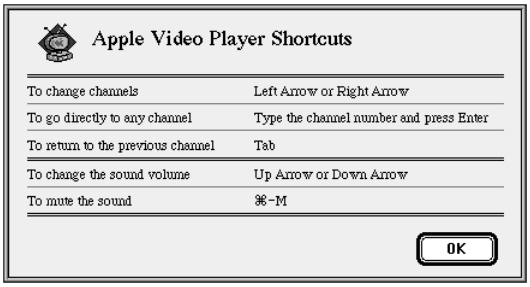
On-screen help for the Apple Video Player application is available through the menu at the upper-right corner of the screen, marked with the ? icon. When Apple Video Player is the active application, choose Apple Video Player Guide from the ? menu. Apple Video Player Guide gives you step-by-step instructions for tasks you need help doing.

Note: Apple Video Player Guide is not available if you have a computer with system software earlier than 7.5.

To see explanations of all the items on the screen when you use Apple Video Player, make sure that the video window is active, then choose Show Balloons.



To be reminded of keyboard shortcuts you can use with Apple Video Player, choose Apple Video Player Shortcuts from the ? menu.



Using a hot key

You can also open the Apple Video Player application by pressing a "hot key" (a preset key or combination of keys). When you press this hot key, you switch to the Apple Video Player program no matter what computer program you are currently in. To learn how to set a hot key, see "Setting a Hot Key" in Chapter 6.

Choosing a video source

Using the Apple Video Player application, you can either view TV signals that come through a cable or an antenna, or watch a video recording from a VCR or other video device.

To choose a video source setting, follow these instructions:

1 Open the Windows menu and choose Show Controls Window.

The Controls window appears.

2 Click the video screen icon.

The screen controls appear.

3 Click the video source you want to use:

- If you want to watch TV, click TV.
- If you want to view video from a VCR or other device that's attached to the composite video input port, click Video.
- If you want to view video from a VCR or other device that's attached to the S-video input port, click S-Video.

Note: If you're not sure which port a video device is attached to, see "Determining Which Video Connector You Need" in the section "Connecting Other Video Equipment" in Chapter 1.

The source change takes effect as soon as you make your choice.

Changing TV channels

When the video source is set to TV and the video window is active, you can use any of the following methods to change channels:

- Click the Up or Down arrow on the video window.
- Select a name from the Names pop-up menu on the video window (if you've given names to channels, as described in Chapter 6).
- Press the Left Arrow key or Right Arrow key on the keyboard. (Make sure Apple Video Player is the active application, or these keys won't have any effect.)

- Type the channel number.

  When you use an arrow, you go to the next available unlocked channel (a channel with unrestricted access). To go to a locked (restricted access) channel, you must enter a channel number.

  Note: See "Locking and Unlocking Channels" in Chapter 6 to learn how to restrict or grant access to channels.

  To go back and forth between the current channel and the last one to which you were tuned, press the Tab key.

  Each time the channel changes, the channel name (if one exists) appears briefly on top of the TV picture.

- Use the channel controls on the remote control. For more information, see Chapter 9, "Using the Remote Control."

  Too many channels? When you browse through channels using the remote control or the arrows on your keyboard or video window, you may see channels that have no picture or that show only static. To skip such channels entirely, see "Programming Channels" in Chapter 6.

Adjusting the sound

You can adjust the sound's volume, balance, and tone. You can also choose monophonic (mono) or stereophonic (stereo) sound.

Changing the sound volume

There are four ways to change sound volume:

- Use the volume buttons on the front of the computer.
- Drag the slider next to the speaker icon on the video window.

- Press the Up Arrow key or Down Arrow key on the keyboard. (Make sure Apple Video Player is the active application, or these keys won't have any effect.)
- Use the volume controls on the remote control. For more information, see Chapter 9, "Using the Remote Control."

To mute the sound, click the speaker on the video window, press ⌘-M on the keyboard, or press the muting button on the remote control. To turn the sound back on, click the speaker, press ⌘-M, or press the remote control's muting button. The sound will also go back on if you adjust the volume using any method.

You can also click anywhere in a slider's track to move the slider to that position. The sound adjustments take effect immediately, so you can monitor your changes.

Choosing a sound mode

When the video source is set to TV, you can control whether the sound is mono or stereo. You can also choose the Second Audio Program (SAP), which (when available) broadcasts in a second language.

To set the sound mode, follow these steps:

1. Choose Show Controls Window from the Windows menu.

   The Controls window appears.

2. Click the sound icon.

The sound controls appear.

3 Click the sound mode you want to use (Mono, SAP, or Stereo).

The new mode takes effect immediately.

Adjusting speaker balance and tone

To adjust the speaker balance, bass, or treble:

1 Choose Show Controls Window from the Windows menu.

2 Click the sound icon.

3 Drag the appropriate slider to adjust the sound to your liking.

You can also click anywhere in a slider's track to move the slider to that position. The sound adjustments take effect as you make them, so you can monitor your changes.

Note: You'll only be able to hear changes in balance if you're using external speakers or headphones.

Adjusting the picture

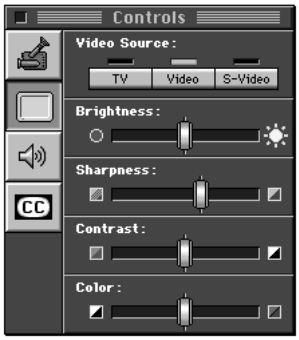
To adjust the brightness, sharpness, contrast, and color of the picture:

1 Choose Show Controls Window from the Windows menu.

The Controls window appears.

2 Click the video screen icon.

The screen controls appear.



3 Drag the appropriate slider to adjust the picture to your liking.

You can also click anywhere in a slider's track to move the slider to that position. The picture adjustments take effect as you make them, so you can monitor your changes.

CHAPTER

6

Customizing the TV Tuner Settings

This chapter explains how to use the Apple Video Player application program to give names to channels, protect channels with a password, and set reminders that notify you when important shows are about to begin.

Before following the instructions in this chapter, you need to open the Apple Video Player application by double-clicking its icon. (The application is in the Apple Video Player folder, in the Apple Extras folder on your hard disk.) You can also press the TV/MAC button on the remote control.

Apple Video Player

The information and instructions provided in this chapter are meant to make using your TV tuner more convenient. You don't have to customize the TV tuner to watch television on your computer, but if you don't you'll only be able to see a few channels. For the basic information you need about watching TV or video, read Chapter 5.

See also: "Setting the Closed Caption and Video Text Options" in Chapter 8.

Programming channels

Your TV tuner card can receive channels picked up by your antenna connection (channels 2 through 69) or cable service connection (channels 1 through 125).

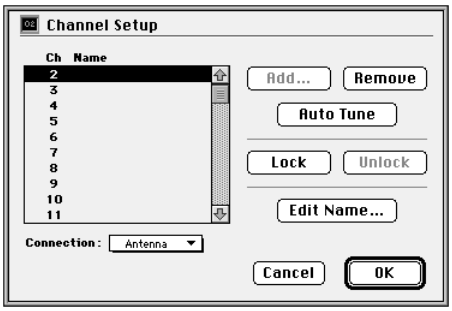
You can make changes to the list of channels that are available with a particular connection. First, you choose a connection; then you can edit the channel list for that connection.

Choosing a connection (antenna or cable service)

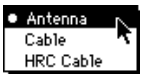
To choose a connection so that you can edit its channel list, follow these steps:

1 Choose Channel Setup from the Setup menu.

The Channel Setup window appears, with the channel list in a scrollable box.



2 Open the Connection pop-up menu (under the channel list).



3 Choose the connection you want.

The channel list changes to a list of channels available with that connection.

About HRC Cable: Some cable services use HRC cable frequencies instead of standard cable frequencies. If you can't receive channels above channel 13, try selecting HRC Cable in the Connection pop-up menu.

Removing channels automatically

Some channels in a channel list don't have valid signals. You can remove such channels from the list so that they're skipped when you scan through the channels.

To remove channels automatically, click the Auto Tune button. Auto Tune finds valid channels and "disables" the rest, removing them from the channel list.

Note: Auto Tune removes invalid channels only from the channel list for the connection selected in the Connection pop-up menu. You may want to choose each of the other connections and click Auto Tune to remove channels in each channel list.

Once a channel is removed, you can still get to it by typing its number on the keyboard. You can also make a channel available again by adding it to the channel list manually. See "Restoring and Adding Channels" later in this section.

Removing channels manually

Although Auto Tune filters out channels that don't send valid signals, it doesn't remove channels that send valid but scrambled signals (for example, pay-per-view or premium cable channels). Additionally, there may be channels in your viewing area that you would simply prefer not to see when you browse through channels.

Follow these steps to remove channels manually from channel lists:

1. Choose Channel Setup from the Setup menu.
2. Choose from the Connection pop-up menu the connection for the channel list you want to edit.

   Note: You can remove channels only from the channel list for the connection that's currently chosen. For example, if you remove channel 13 from the antenna channel list, it may still be available in the Cable channel list or the HRC Cable channel list.

3. Select the channels you want to remove.

   To select several channels in a row, hold down the Shift key and drag. To select channels scattered throughout the list, hold down the Shift key and click each channel you want removed.

   You may have to scroll to see all possible choices.

4. Click Remove.

   The channels you selected are removed from the channel list.

Locking channels: You may want to keep a channel in the channel list, but restrict access to it. See "Locking and Unlocking Channels" and "Creating and Changing a Password" later in this chapter.

Important If you want to use Auto Tune, do so before you manually add or remove channels. You can use Auto Tune after you've added and removed channels, but doing so undoes all your previous changes.

Restoring and adding channels

You may want to put a channel back on a channel list—for example, when a station that was temporarily off the air resumes broadcasting. Or you may want to add a channel—for example, when your local cable company adds a new station to its lineup.

Follow these steps to restore or add a channel to a channel list:

1. Choose Channel Setup from the Setup menu.
2. Choose from the Connection pop-up menu the connection for the channel list you want to edit.

   Note: You can restore or add channels only in the channel list for the connection that's currently chosen. For example, if you add channel 36 to the antenna channel list, it may still not be available in the Cable channel list or the HRC Cable channel list.

3. Click Add.

   The Add Channels dialog box appears. If the Add button is dimmed, all possible channels for the currently selected signal source are already available.

4 Select the channels you want to restore or add.

To select several channels in a row, hold down the Shift key and drag. To select channels scattered throughout the list, hold down the Shift key and click.

You may have to scroll to see all possible choices.

5 Click Add.

The channels you selected are added to the channel list.

Giving names to channels

You can assign a name of up to 15 characters to a channel. The name can be the station's call letters, network affiliation, network name, or anything else you want.

Channel names appear in the Names pop-up menu of the video window. See "Changing TV Channels" in Chapter 5 for information on using a name to select a channel.

Follow these steps to name or rename channels.

1 Choose Channel Setup from the Setup menu.

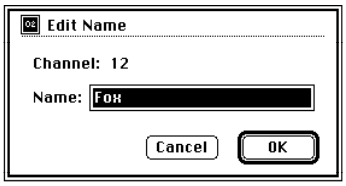
2 Choose from the Connection pop-up menu the connection for the channel list you want to edit.

Note: You can name or rename channels only in the channel list for the connection that's currently chosen. For example, if you give channel 13 a name in the antenna channel list, the name will not appear in the cable channel list or the HRC cable channel list unless you name it in those lists.

3 Select a channel from the channel list, then click Edit Name.

Or, you can double-click the channel number or name.

The Edit Name dialog box appears, with any name already assigned to the channel selected. (Initially, channels have no names assigned to them.)



4 Type a name for the channel.

To remove a name from the channel, press the Delete key while the entire name is highlighted.

5 Click OK.

The name you typed appears to the right of the channel number in the channel list.

Locking and unlocking channels

Locked channels appear in the channel list but don't appear in the video window when you scan through the channels.

1 Choose Channel Setup from the Setup menu.

2 Choose from the Connection pop-up menu the connection for the channel list you want.

Note: You can lock or unlock channels only in the channel list for the connection that's currently chosen. For example, if you lock channel 15 in the antenna channel list, the channel will not be locked in the cable channel list or the HRC cable channel list unless you name it in those lists.

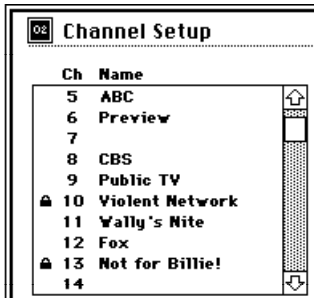
3 Select the channels you want to lock by highlighting them.

To select several channels in a row, hold down the Shift key and drag. To select channels scattered throughout the list, hold down the Shift key and click all the channels you want to lock.

You may have to scroll to see all possible choices.

4 Click Lock.

The channels you selected are locked. Small locks appear at the left of the locked channels' numbers in the channel list.



You can watch a locked channel by typing its number on the keyboard. A dialog box appears:

If you click Yes and no password is in effect, you tune in to that channel. However, the channel remains locked and out of the normal scanning sequence. If a password has been set, you must type the password before the channel can become available.

To unlock a channel, choose Channel Setup from the Setup menu, select the channel, and click Unlock.

Creating and changing a password

You can create a password to limit access to the Channel Setup dialog box and locked channels. When you set a password, anyone choosing Channel Setup from the Setup menu or switching to a locked channel must type the password.

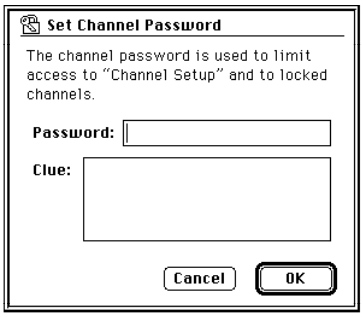
The same password applies to all locked channels.

Creating a password

Follow these steps to create a password:

1 Choose Set Channel Password from the Setup menu.

A dialog box appears.



2 Type a word or phrase of up to 15 characters.

You can also type a clue to help you remember the password. The clue appears every time anyone seeking access is asked for the password.

If you don't want to have a clue, don't type one.

3 Click OK.

Your password is now in effect.

Important Make sure you keep a record of your password. If you forget your password, you will have to reset all your customized settings (including channel names and programmed channels) when you invalidate it, as described in "Forgetting a Password," later in this section.

Changing a password

Follow these steps to change a password:

1 Choose Set Channel Password from the Setup menu.

A dialog box appears.

2 Type the current password.

If you've forgotten your password, see the next section, "Forgetting a Password."

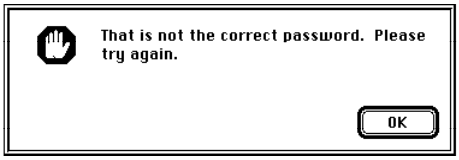
As you type, the characters are replaced by bullets to ensure privacy.

3 To change to a new password, click OK. Then follow steps 2 and 3 in "Creating a Password," earlier in this section.

To remove the password (so a password is not required), make sure that the password in the Password text box is selected (highlighted). Then press the Delete key before you click OK.

Forgetting a password

If you enter an incorrect password, you see this dialog box:



If you can't remember your password, you must reset the password and then create a new one.

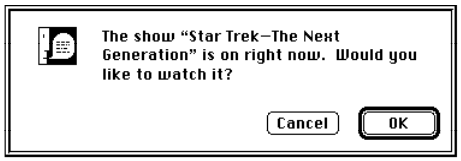
To reset the password, quit the Apple Video Player application. Then move the Apple Video Player Prefs file to the Trash. The Apple Video Player Prefs file is in the Preferences folder, which is in the System Folder.

Important When you move the Apple Video Player Prefs file to the Trash, any preferences you have set (for example, picture contrast or channel names) are changed back to the standard settings provided by the Apple Video Player application.

Setting and editing TV reminders

You can arrange to have notices appear on your screen to remind you that specific shows are about to begin.

When the time you've set for a reminder arrives, a notice appears on the screen.



The notice appears no matter which application program you are using on your computer at the notification time.

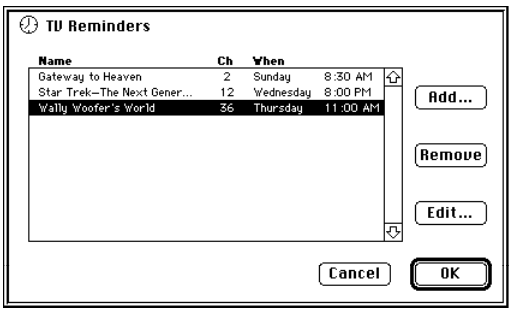
If you click OK in this notice, the Apple Video Player application opens, switches to the proper channel, and displays the show in the video window.

Setting a reminder

To set a reminder, follow these steps:

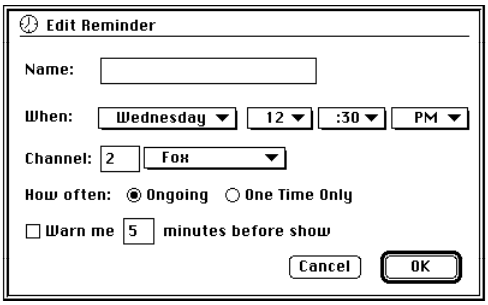
1 Choose TV Reminders from the Setup menu.

The TV Reminders dialog box appears.



2 Click Add.

The Edit Reminder dialog box appears.



3 Type the show's name as you want it to appear in the notice.

4 Set the day and time that the show begins.

5 Set the channel by typing its number in the Channel number box.

If the channel has a name, you can select the name in the pop-up menu to the right of the Channel number box.

6 Specify whether the reminder should occur on an ongoing basis or just once.

If you select One Time Only, the reminder will be removed automatically after the show airs.

7 If you want an advance notice before the show begins, type the number of minutes before the show starts that you want a warning; then click the "Warn me" checkbox to select it.

The notice can appear up to 99 minutes before show time.

8 Click OK.

You'll return to the TV Reminders dialog box, where you'll see your new entry in the list.

Editing a reminder

To edit a reminder, follow these steps:

1 Choose TV Reminders from the Setup menu.

The TV Reminders dialog box appears.

2 Select the reminder you want to edit, then click Edit.

Or, you can double-click the reminder.

The Edit Reminder dialog box appears.

3 Make the changes you want to, then click OK.

The changes you've made take effect immediately.

Removing a reminder

To remove a reminder, follow these steps:

1 Choose TV Reminders from the Setup menu.

The TV Reminders dialog box appears.

2 Select the entry you want to remove.

Important There is no Undo function for the Remove command. To restore an entry that you have removed, you must reenter all the settings you made in the Edit Reminder dialog box.

3 Click Remove.

The entry is removed immediately.

4 Click OK to close the TV Reminders dialog box.

Setting a hot key

You can turn on the Apple Video Player application by pressing a "hot key" (a preset key or combination of keys). When you press this hot key, you switch to the Apple Video Player application no matter what application you are currently in. If the Apple Video Player is already the active application, pressing the hot key quits the Apple Video Player application.

To set a hot key, follow these instructions:

1. Choose Hot Key from the Setup menu.

   The Hot Key dialog box appears.

2. Press the key or key combination you want to use for your hot key.

   You can use one or more (up to four) of the modifier keys—⌘, Option, Control, and Shift—plus any other key.

   Don't use a key combination that is already used by other programs. For example, don't use ⌘-P, which is for printing in most programs.

3. Click OK.

   Your new hot key is ready to use.

   If you find that your hot key replaces a keyboard shortcut in another program, repeat these steps to choose another hot key.

CHAPTER

7

Capturing TV and Video Images

This chapter gives instructions for using the Apple Video Player application program to capture

- individual (still) images
- sequences of moving images (as QuickTime movies)

The images in the video window can come from the TV tuner or from video equipment connected to your video input card.

Before following the instructions in this chapter, you need to open the Apple Video Player application by double-clicking its icon. (The application is in the Apple Video Player folder, in the Apple Extras folder on your hard disk.) You can also press the TV/MAC button on the remote control.

Apple Video Player

Capturing individual images

You have two ways to capture a single image—by using the capture controls in the Controls window or by using the Copy Video Display command in the Edit menu.

Capture controls

When you use the capture controls in the Controls window, you can freeze the screen image before you save it. Additionally, the capture controls let you save the image directly on a disk.

Follow these steps:

1. Choose Show Controls Window from the Windows menu.

   The Controls window appears.

2. Click the video camera icon.

The capture controls appear.

3 Wait until you see the image you want to capture.

The Controls window can remain open without affecting what happens in the video window.

- To freeze the video image at the current frame, click Freeze.

  The video freezes, and you can decide whether you want to save the current frame.

  To unfreeze the video, click Freeze again.

- To save the current video frame on a disk, click Save.

  If the video isn't already frozen, it freezes at the current frame until you complete the Save operation.

  A dialog box appears so you can specify where to save the image. When you click Save, the image is saved as a PICT file under the name that you supply. (A PICT file can be opened by most graphics applications.)

Copy Video Display command

To capture the current screen image by copying, choose Copy Video Display from the Edit menu or press ⌘-C.

Important When you use Copy Video Display or press ⌘-C, the current screen image is copied to the Clipboard. The image is not saved on a disk. (To save an image that's on the Clipboard, you must paste it into a document or the Scrapbook.)

Capturing movies

You can capture video sequences (moving images) as QuickTime movies.

Video capture does not work as well with virtual memory on. For best results, turn off virtual memory. To check whether it is on or not, open the Memory control panel. If the On button for virtual memory is selected, click the Off button to turn virtual memory off.

To capture video images, follow these steps:

1. Make sure networking or printing is not active and virtual memory is turned off.

   For best results recording video, you should quit networking or printing applications and turn off virtual memory. To check whether virtual memory is on or not, open the Memory control panel. If the On button for virtual memory is selected, click the Off button to turn virtual memory off, and restart your computer.

2. Adjust the volume to your liking.

   Movies are captured at the current volume setting. For example, if the sound is muted, your recorded movie will not have any sound.

3. Choose Show Controls Window from the Windows menu.

   The Controls window appears.

4 Click the video camera icon.

The capture controls appear.

5 Wait until the sequence that you want to capture begins.

The Controls window can remain open without affecting what happens in the video window.

6 Click Record.

Recording begins and the Record button changes to a Stop button.

7 Click Stop when you've recorded as much as you want.

Important If you don't click the Stop button, recording continues until the hard disk is full.

A dialog box appears, in which you can specify a name and location for your movie.

You can also preview the QuickTime movie before you save it.

Use as small a size as you can: The amount of disk storage that a movie takes is directly related to the size of the video window—the larger the window, the more disk space you use. By choosing Smallest Size from the Windows menu before you record, you may be able to save more than 50 percent in storage space. (A movie that uses about 75 megabytes per minute at the normal video window size will use only about 35 megabytes per minute at the smallest video window size.) See "Changing the Video Window Size" in Chapter 8.

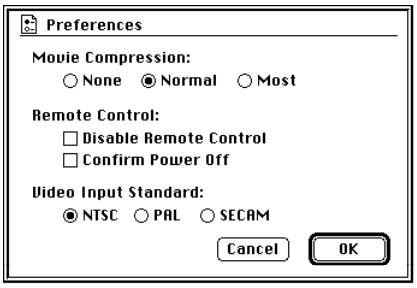
You can open the movie from within any application that supports QuickTime, such as SimpleText. (QuickTime is a system software extension that comes with your computer.)

Using compression

With compression you can store movies in a much smaller space than they would normally require. To use compression, follow these steps before you record a movie:

1 Choose Preferences from the Setup menu.

The Preferences dialog box appears.



2 Click one of the buttons under Movie Compression.

None means that no compression takes place. *Normal,* the preset choice, uses anywhere from 12 to 50 percent of the disk space that *None* uses; the less movement in each frame of the movie, the greater the savings. *Most* uses slightly less disk space than does *Normal.*

To save the most space you can, choose the smallest size video window and the most compression.

Note: Compression affects picture quality: the more compression you use, the grainier the picture.

CHAPTER

8

Other Features

This chapter gives instructions for using the following special features of the Apple Video Player application program:

- setting closed caption and video text options
- changing the size of the video window
- changing the color of the windows
- setting the video input standard (NTSC, PAL, or SECAM)

Before following the instructions in this chapter, you need to open the Apple Video Player application by double-clicking its icon. (The application is in the Apple Video Player folder, in the Apple Extras folder on your hard disk.) You can also press the TV/MAC button on the remote control.

Setting the closed caption and video text options

Some broadcast and cable TV programs feature closed caption text tracks for people with impaired hearing. In some areas, video text tracks that display programming schedules, news, or financial data are available. When your video source is set to TV, you may be able to take advantage of special tracks.

Note: If you have a videotape with closed captions (for example, if you've recorded a TV show with closed captions), the captions can only be viewed if your VCR is connected to the TV tuner card. (For instructions, see the Appendix, "Viewing Closed Captions on Videotape.")

1 Choose Show Controls Window from the Windows menu.

The Controls window appears.

2 Click the CC icon.

The closed captioning controls appear.

3 Click the track you want to use.

CC 1 provides closed captions for most broadcasts that have this feature. CC 2 sometimes provides captions in a second language. Text 1 may provide schedules of programs broadcast on a channel. Text 1 or Text 2 may provide specialized text for TV.

The track you select applies to all channels, although some channels may not provide the feature.

Changing the video window size

There are several ways to change the size of the video window. You can choose a command from the Windows menu, use a keyboard shortcut for one of the three most common sizes, click the zoom box, drag the size box, or use the remote control. (All but the last way are explained in this section. The remote control is explained in Chapter 9.)

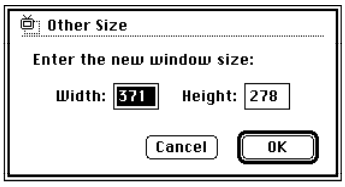
Choosing menu commands

You can choose different video window sizes from the Windows menu:

- Smallest Size uses about 1/16 of the screen.
- Normal Size uses about 1/4 of the screen.
- Largest Size uses as much of the screen as it can.

On monitors that are 640 by 480 pixels or smaller, Largest Size hides both the menu bar and the screen controls. Moving the mouse makes the menu bar visible.

- Other Size opens a dialog box in which you can enter the size you want.



  Width must be in the range 160 to 640 pixels. Height must be in the range 120 to 480 pixels.

  Keep your proportions: The usual video window width-to-height ratio is about 4 to 3. Setting other proportions distorts the video image.

Using keyboard shortcuts and the zoom box

There are three keyboard shortcuts for changing the video window size:

- ⌘-1 sets the smallest size.
- ⌘-2 sets normal size.
- ⌘-3 sets the largest size.

To alternate between the current size and the largest size, click the zoom box .

Dragging the size box

If you drag the size box, the horizontal and vertical dimensions of the screen change proportionally.

If you drag the size box while holding down the Shift key, the image becomes distorted. (It stretches or shrinks in the direction that you drag.)

Changing the window color

You can set a new color for the border surrounding the video window by choosing Window Color from the Windows menu. The current color is checked. The choices are Dark Gray, Green, Blue, Magenta, Red, and Gold.

"Window Color" is not the display color: The Window Color command has no effect on the colors you see in the video window. For information on setting the brightness, sharpness, contrast, and color in the video window, see "Adjusting the Picture" in Chapter 5.

Setting the video input standard

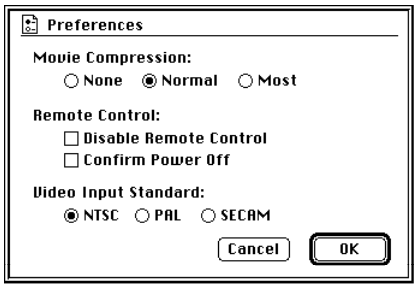
The video input standard determines how the Apple Video Player application interprets video signals. This standard is preset to your region in the Apple Video Player software. In most cases, you won't need to change it.

NTSC is the standard video signal for most of the Americas and Japan. PAL is common in Western Europe, Australia, most of Asia, and parts of South America and Africa. SECAM is used in France, Eastern Europe, and parts of Asia and Africa.

To change the video input standard, follow these steps:

1 Choose Preferences from the Setup menu.

The Preferences dialog box appears.



2 Choose the Video Input Standard setting you need.

If the setting you choose produces a strange image (for example, the picture is too small or the colors are odd), try another setting.

CHAPTER

9

Using the Remote Control

Before using the remote control, install the batteries that are included in your package.

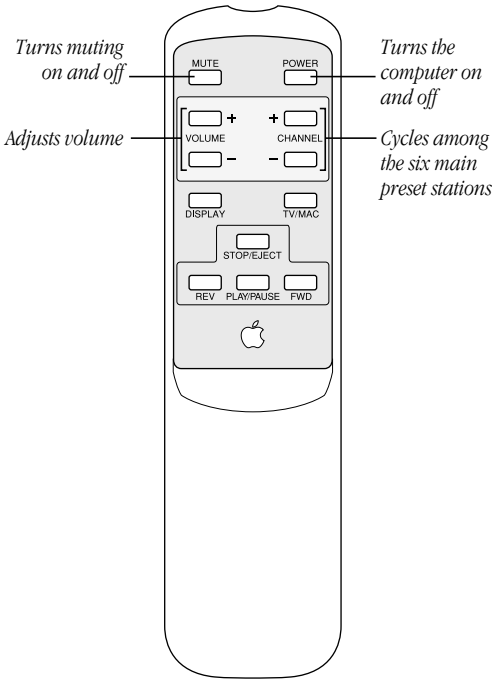
You can use your remote control to

- turn the computer on and off
- switch easily between watching TV or video, and using other computer application programs
- control the sound of the radio or TV
- change TV channels or radio stations
- manipulate the size of the video window

If your computer has a CD-ROM drive, you can also use the remote control to

- control the sound from an audio CD
- stop and eject a CD or CD-ROM disc
- pause and continue play of an audio CD
- move to the previous track of an audio CD
- move to the next track of an audio CD

Controlling your FM radio



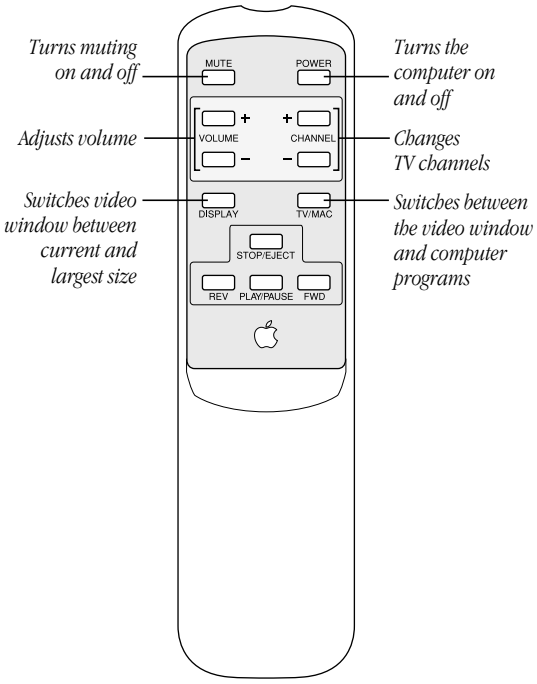
Note: Your remote control may look different from the one shown here, but it includes the same buttons.

You cannot use the remote control to switch to the Apple FM Radio from another application. However, while you hear the radio (whether or not the Apple FM Radio application is open), the Apple FM Radio remote controls will work.

When you press the TV/MAC button while the radio is playing, the Apple Video Player application starts, but you won't hear the TV or video until you quit the Apple FM Radio application.

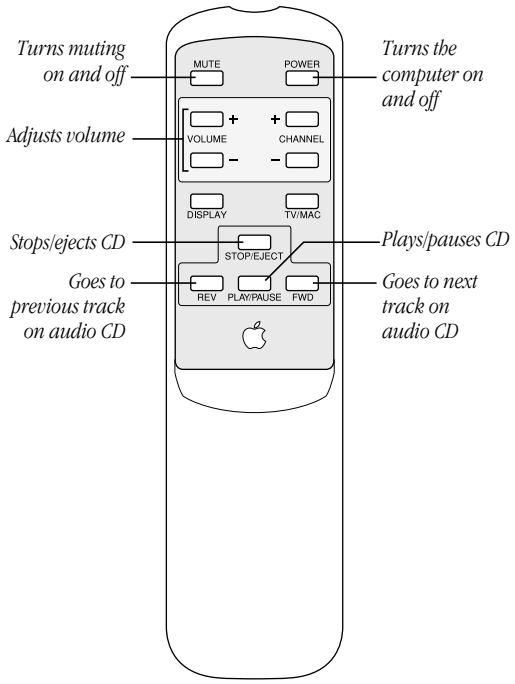
If you are playing an audio CD in a CD-ROM drive, you hear the audio CD and the TV or FM radio sounds simultaneously.

Controlling TV or video



Note: Your remote control may look different from the one shown here, but it includes the same buttons.

Controlling your CD-ROM player



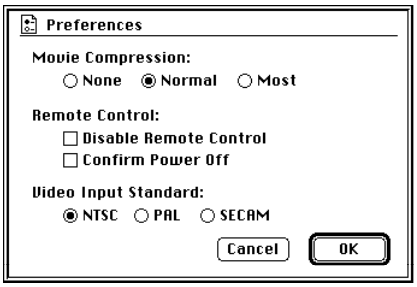
Note: Your remote control may look different from the one shown here, but it includes the same buttons.

Setting preferences

You can set two preferences for the remote control. The first is whether the remote control is on or off, and the second is whether a confirmation box appears when you press the remote control's Power button to shut down the computer.

1 Choose Preferences from the Setup menu.

The Preferences dialog box appears.



2 To turn off the remote control, click the Disable Remote Control checkbox to put an X in it.

If this checkbox is selected, the remote control won't work. To turn the remote control back on, click the checkbox to remove the X.

3 To make a confirmation box appear so you can change your mind about shutting down the computer when you press the remote control's Power button, click the Confirm Power Off checkbox to put an X in it.

If you no longer want to see the confirmation box, click the checkbox to remove the X.

4 Click OK.

The changes take effect immediately.

CHAPTER

10

Troubleshooting

This chapter suggests what to do if problems occur when you're using the Apple Video Player or FM Radio software.

Warning If you have a problem with your Apple equipment and nothing presented in this chapter or in the documentation that came with your computer solves it, consult the service and support information that came with your Apple equipment for instructions on how to contact an Apple-authorized service provider or Apple for assistance.

If you attempt to repair the Apple equipment yourself, any damage you may cause to the Apple equipment will not be covered by the limited warranty on your Apple equipment. Contact an Apple-authorized dealer or service provider for additional information about this or any other warranty question.

Problems listening to the radio

You can't find the Apple FM Radio application.

If the Apple FM Radio application is not anywhere on your hard disk, you need to install it.

You install Apple FM Radio from your system software CD, system software disks, or the *TV/FM Software* installer disks, depending on the disks or CDs you received with your equipment.

1. Start the computer.
2. Insert the CD or disk that contains the Apple FM Radio application.
   - If you purchased your computer with the TV/FM tuner card already installed, locate either the system software CD or the set of system software floppy disks (whichever came with your computer). If you have a system software CD, insert it into the CD-ROM drive. If you have a set of system software floppy disks, insert the first disk (labeled something like *Install Disk 1* or *System Backup Disk 1*) into the floppy disk drive.
   - If you purchased the *Apple TV/FM Radio System* kit separately from your computer, insert the *TV/FM Software Install Disk 1* into the floppy disk drive.
3. Double-click the CD or disk icon to open it (if its window is not already visible).
4. Double-click the Installer icon.

5 Install the Apple FM Radio application.

- If you are installing from the *TV/FM Software Install Disk 1* disk, click Install and follow the instructions on the screen.
- If you are installing from your system software CD or disks, click Custom Install. Select Apple FM Radio from the software list that appears, and then click Install.

  The Apple FM Radio application is installed on your hard disk (in the Apple FM Radio folder in the Apple Extras folder).

6 When installation is complete, click Restart.

You don't hear anything when you open the Apple FM Radio application.

- Be sure your FM antenna is securely connected to the FM port (the left port) on the TV/FM tuner card and the antenna is raised high. See "Making Connections to the TV/FM Tuner Card," in Chapter 1, for your computer type.
- The radio sound doesn't work if Video or S-Video is selected in the Apple Video Player application (even if that application isn't currently open). Open the Apple Video Player application and choose Show Controls from the Windows menu. Click the video screen icon (the second button down on the left). Choose TV as your video source. You can then quit the Apple Video Player application. Now when you open the Apple FM Radio application, you will hear radio.

- Be sure the volume on your computer is turned up. Use the volume buttons on the front of your computer if you have them, or use the sound-related control panel to adjust the volume. (For more information on adjusting volume, see Macintosh Guide if it is available on your computer, or the printed manuals that came with your computer.)
- You may need to broaden the signal range or strength. Make sure the Apple FM Radio application is active. Open the Options menu, choose Signal Range or Signal Strength, and choose "DX" for Signal Range and "All Stations" or "All Except Weakest" for Signal Strength. For instructions on choosing a signal range or strength, see Chapter 3, "Customizing the FM Radio Settings."

The reception is poor.

- Adjust the FM antenna (connected to the left port on the TV/FM tuner card). Be sure it is securely connected to the port and raised high.

The remote control doesn't work.

- Make sure the remote control has a battery, or try changing the remote control's battery.
- Try moving closer to your computer. If you are already very close to the computer, point the remote control directly at the remote control receiver on the front of the computer.
- The checkbox labeled Disable Remote Control may be selected in the Preferences dialog box in your TV application. Open Apple Video Player and choose Preferences from the Setup menu. Deselect the Disable Remote Control checkbox (click to remove the X).

You can't switch to radio using the remote control, or quit the radio using the remote control.

- There isn't a way to turn the radio on or off using the remote control.

When you click Seek or Auto Add, Apple FM Radio finds either too few or too many stations.

- If Apple FM Radio is finding too few clear stations, adjust the FM antenna (the one connected to the left port on the TV/FM tuner card) while the radio is playing to see if some stations come in clearer.
- If Apple FM Radio is finding "fuzzy" stations when it scans or adds stations, you may need to narrow the signal range or strength. Make sure the Apple FM Radio application is active. Open the Options menu, choose Signal Range or Signal Strength, and choose another setting. See what that does to the Scan and Auto Add features. Experiment with different settings to see which setting eliminates the stations you want eliminated. For instructions on choosing a signal range or strength, see Chapter 3, "Customizing the FM Radio Settings."

Problems watching TV or video

You can't find the Apple Video Player application

If the Apple Video Player application is not anywhere on your hard disk, you need to install it.

You install Apple Video Player from your system software CD, system software disks, or the *TV/FM Software* installer disks, depending on the disks or CDs you received with your equipment.

1. Start the computer.
2. Insert the CD or disk that contains the Apple Video Player application.
   - If you purchased your computer with the TV/FM tuner card already installed, locate either the system software CD or the set of system software floppy disks (whichever came with your computer). If you have a system software CD, insert it into the CD-ROM drive. If you have a set of system software floppy disks, insert the first disk (labeled something like *Install Disk 1* or *System Backup Disk 1*) into the floppy disk drive.
   - If you purchased the *Apple TV/FM Radio System* kit separately from your computer, insert the *TV/FM Software Install Disk 1* into the floppy disk drive.
3. Double-click the CD or disk icon to open it (if its window is not already visible).
4. Double-click the Installer icon.

5 Install the Apple Video Player application.

- If you are installing from the *TV/FM Software Install Disk 1* disk, click Install and follow the instructions on the screen.
- If you are installing from your system software CD or disks, click Custom Install. Select Apple Video Player from the software list that appears, and then click Install.

  The Apple Video Player application is installed on your hard disk (in the Apple Video Player folder in the Apple Extras folder).

6 When installation is complete, click Restart.

Your remote control doesn't work.

- The checkbox labeled Disable Remote Control may be selected in the Preferences dialog box. Choose Preferences from the Setup menu and deselect this checkbox (click to remove the X).
- Try changing the remote control's battery.
- Try moving closer to your computer. If you are already very close to the computer, point the remote control directly at the remote control receiver on the front of the computer.

You can't switch to TV when you press the TV/MAC button on the remote control.

- You may not have selected TV as your video source. Choose Show Controls Window from the Windows menu and click the TV Video Source button.

You can't switch to radio using the remote control, or quit the radio using the remote control.

- There isn't a way to turn the radio on or off using the remote control.

The Power button on your remote control doesn't work.

- You may have left a dialog box open. Close any open dialog box, then try the Power button again.

You see static or a blank screen when you try to watch TV or video.

- Be sure your video equipment is securely connected to the appropriate video input port and your equipment is turned on.
- Be sure your antenna or cable service is securely connected to the coaxial port on the TV/FM tuner card.
- You may have the wrong video source selected. Go to the screen controls in the Controls window and click the appropriate Video Source button.
- Some static may result from poor reception over an antenna, or from problems with cable service. Review the instructions that came with your antenna or cable, or call the supplier for assistance.

The image is too small or it's filled with odd colors.

- The video input standard is set incorrectly. Choose Preferences from the Setup menu and select a different setting.

You see a message that the built-in digitizer cannot display video in the current monitor setting.

- Reduce the number of colors or levels of gray your monitor displays, using the control panel for monitors. (For more information on adjusting a monitor, see Macintosh Guide if it is available on your computer, or the print manuals that came with your computer.)

The image is too white or too dark.

- Adjust the video screen controls. (Choose Show Controls Window from the Windows menu and click the video screen icon.)
- If you have a VCR connected to your video input card, make sure you're not having a problem with the videotape or the VCR itself. (Connect the VCR back to your TV and play the tape to see if the image is still bad.)
- The voltage output of your video equipment may be too high or too low for the video input card. Therefore, your video equipment may be sending video signals that are too strong (causing a white picture) or too weak (causing a very dark picture) for the video input card. Try connecting different video equipment to the card.

You have a dark or "rolling" picture.

- Adjust the video screen controls. (Choose Show Controls Window from the Windows menu and click the video screen icon.)
- If you have a VCR connected to your video input card, make sure you're not having a problem with the videotape or the VCR itself. (Connect the VCR back to your TV and play the tape to see if the image is still bad.)
- If your computer is also connected to a secondary monitor, make sure that your connection goes from the VCR to the monitor, *ending* at the video input card. (The connection must end at the video input card, not the secondary monitor.) Also check that your secondary monitor is set to loop-through (also known as "Hi-Z") input.

You don't hear the TV, or you hear the radio instead of the TV.

- Make sure you have quit the Apple FM Radio application. To do so, click the FM Radio window to make it active, then choose Quit from the File menu. (You can watch TV and listen to the radio at the same time, but the radio sound takes precedence.)
- Be sure the volume on your computer is turned up. Use the volume buttons on the front of your computer if you have them, or use the sound-related control panel to adjust the volume. (For more information on adjusting volume, see Macintosh Guide if it is available on your computer, or the print manuals that came with your computer.)

The sound is intermittent or clipped.

- Turn down the volume controls on your video equipment. They may be set too high for the video input card.
- The voltage output of your video equipment may be too high for the video input card. Therefore, your video equipment may be sending signals that are too strong for the video input card. Try connecting different video equipment to the card.

The sound is full of static.

- Adjust the sound controls in the Controls window. (Choose Show Controls Window from the Windows menu and click the sound icon.)
- Turn up the volume controls on your video equipment.

Unexpected things happen when you try to switch modes using a keyboard shortcut.

- If you can switch between TV and computer using the remote control, but have trouble switching using the keyboard, check the hot key by choosing Hot Key from the Setup menu. Be sure the key combination is not used by one of your other programs. For instance, in most Macintosh programs ⌘-P sends a document to the printer. On the desktop, ⌘-N creates a new untitled folder.

You have a cable service and you can't see any channels above channel 13.

- Some cable services use HRC cable frequencies instead of standard cable frequencies. If you can't receive channels above channel 13, choose Channel Setup from the Setup menu and select HRC Cable from the Connection pop-up menu.

You can't see the Names pop-up menu on the video window.

- You haven't given a name to any channel. See "Giving Names to Channels" in Chapter 6.
- You may have the wrong signal source selected. Each signal source (antenna, or standard or HRC cable) has its own channel list and potential list of channel names. Choose Channel Setup from the Setup menu and make a different choice from the Connection pop-up menu.
- If you had to reset your password because you forgot it, any names you entered earlier for channels were erased. You need to enter the names you want again. See "Giving Names to Channels" in Chapter 6.

You can't see the volume slider on the video window.

- The video window is too small or too large. Change the size by making a choice from the Windows menu or by dragging the size box.

Your password doesn't work, or you forgot your password.

- See "Forgetting a Password," in the section "Creating and Changing a Password" in Chapter 6 for instructions on invalidating a forgotten password so that you can create another password.

You can't see closed captions when watching a channel that provides them.

- The video window must be set to Normal Size or greater to see closed captions. Change the size by making a choice from the Windows menu or by dragging the size box.
- Quit networking or printing applications if they are active. Closed captioning does not work well when networking or printing is active.

You're playing a videotape with closed captions, but the closed captions do not appear.

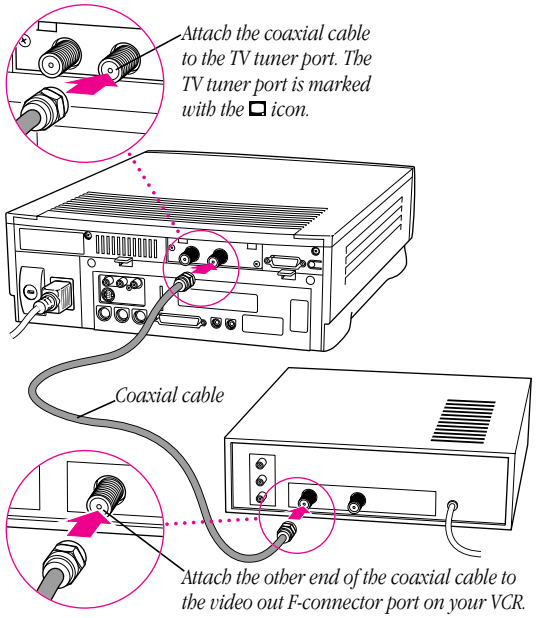
- To view a videotape with closed captions, you must connect your VCR to a TV tuner port, not the video input card. For instructions on connecting the VCR to the TV tuner port, see the Appendix, "Viewing Closed Captions on Videotape."

APPENDIX

Viewing Closed Captions on Videotape

If you want to view closed captions on a videotape that has them, you must connect the VCR to the TV/FM tuner card. (Normally, the VCR is connected to the video input card.)

To connect the VCR to the TV/FM tuner card, remove the cable that is attached to the TV tuner from the TV (keep the other end of the cable attached to the TV tuner port on the card). Then attach the cable to the video out port on the VCR (remove the cable that is attached there now).



Now when you view the videotape with closed captions on the computer, the closed captions appear with the video in the video window.

Connect the TV tuner cable back to the TV when you want to watch TV again.

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